



HIV IN MARYLAND

**MARYLAND HIV PLANNING GROUP
APRIL 3, 2014**

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HIV Surveillance, Epidemiology and Evaluation**

**Maryland Department of Health and Mental Hygiene
Prevention and Health Promotion Administration**



MISSION AND VISION

MISSION

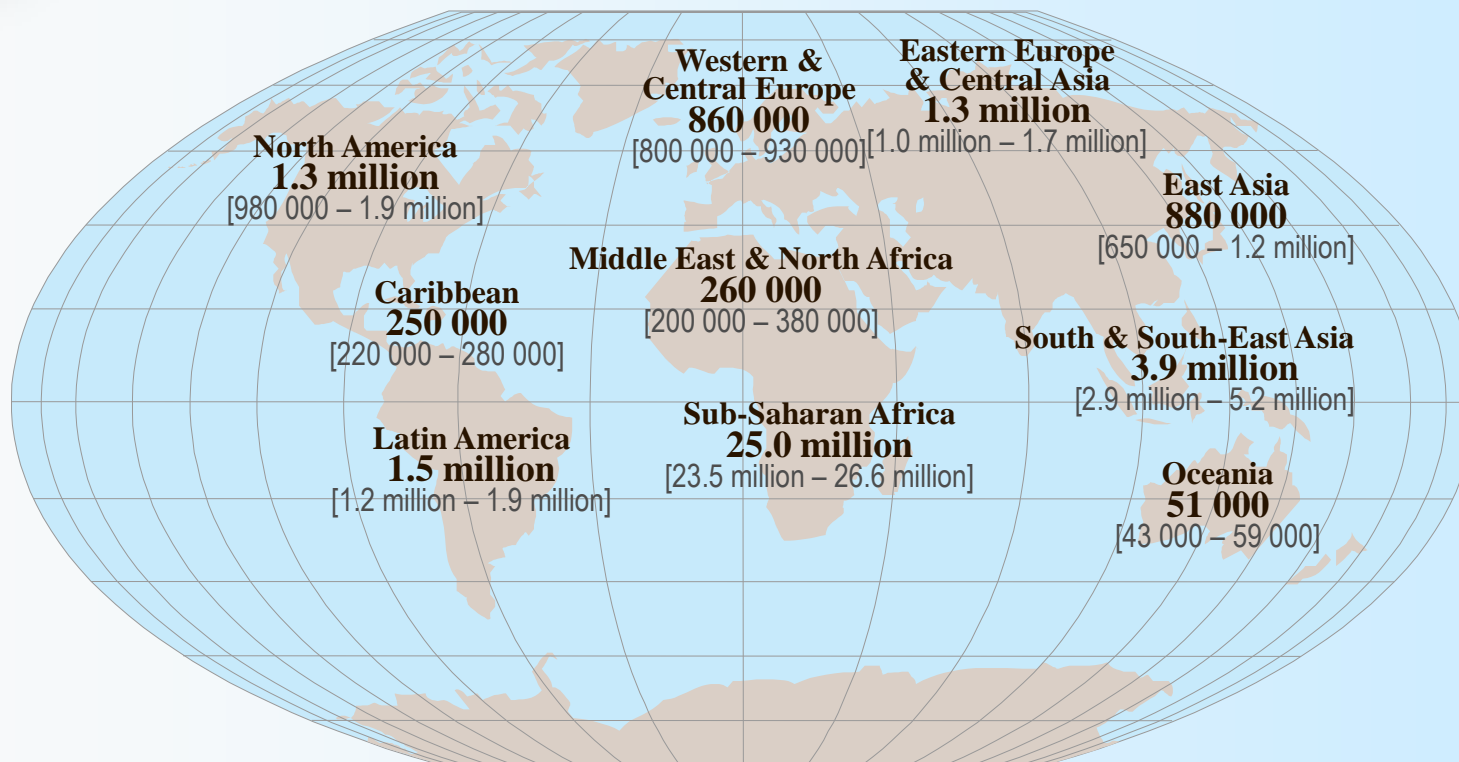
- The mission of the Prevention and Health Promotion Administration is to protect, promote and improve the health and well-being of all Marylanders and their families through provision of public health leadership and through community-based public health efforts in partnership with local health departments, providers, community based organizations, and public and private sector agencies, giving special attention to at-risk and vulnerable populations.

VISION

- The Prevention and Health Promotion Administration envisions a future in which all Marylanders and their families enjoy optimal health and well-being.



Adults and children estimated to be living with HIV | 2012



Total: 35.3 million [32.2 million – 38.8 million]

U.S. Prevalence



HIV Surveillance **Report** Supplemental Report

Volume 18, Number 5

**Monitoring Selected National
HIV Prevention and Care Objectives
by Using HIV Surveillance Data—
United States and
6 Dependent Areas—2011**

National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention
Division of HIV/AIDS Prevention

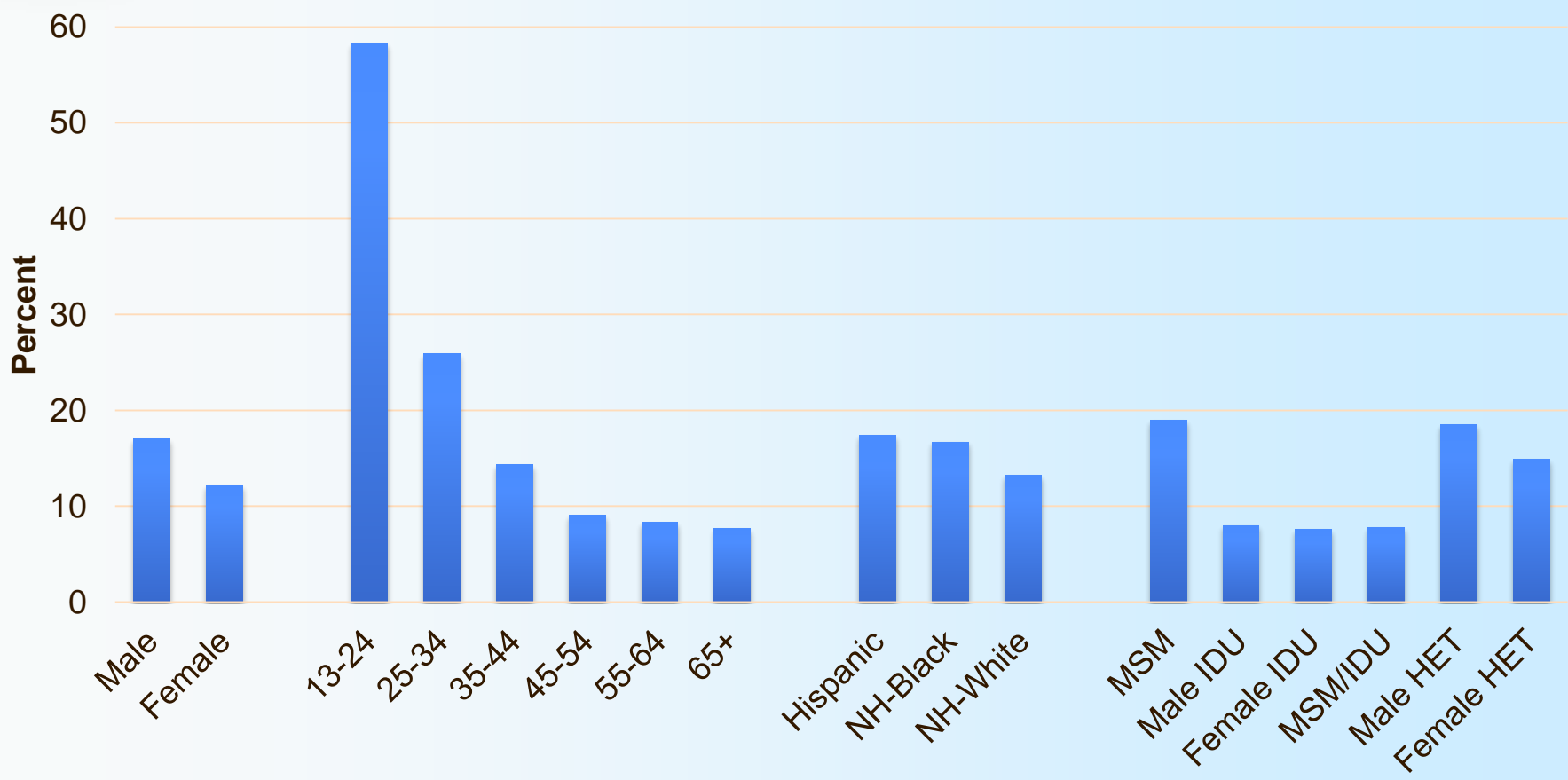


- CDC estimated 1,144,500 adults/adolescents were living with HIV at the end of 2010
- 15.8% were undiagnosed



Undiagnosed Infections

Estimated percent undiagnosed HIV infections, U.S., age 13+, 2010



U.S. Incidence



- Overall national incidence estimate (~50,000) is unchanged from 2008-2010
- 21% decrease among females
- 12% increase among MSM
- 22% increase among 13-24 year old MSM



Volume 17, Number 4

**Estimated HIV Incidence in the
United States, 2007–2010**



Estimated HIV Diagnoses during 2011, Ranked by Rates

<u>STATE/TERRITORY</u>	<u>Cases</u>	<u>Rate per 100,000</u>
1. District of Columbia	962	155.6
2. Virgin Islands	35	33.0
3. Maryland	1,783	30.6
4. Louisiana	1,381	30.2
5. Florida	5,408	28.4
6. Georgia	2,522	25.7
7. New York	4,960	25.5
8. Puerto Rico	888	24.0
9. Mississippi	617	20.7
10. Texas	5,065	19.7
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<i>United States</i>	<i>50,199</i>	<i>15.9</i>

Estimated HIV Diagnoses during 2011, Ranked by Rates

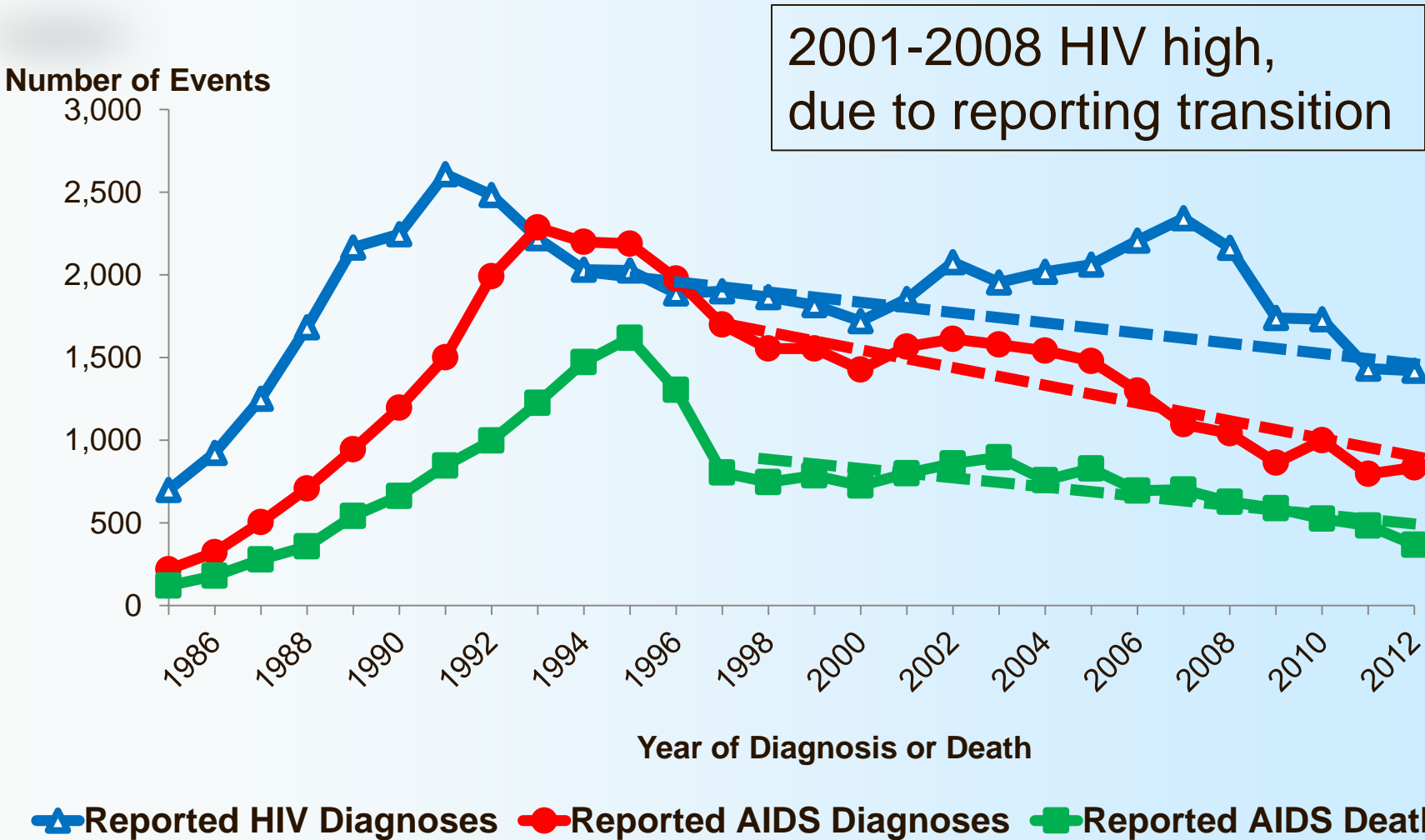


<u>METROPOLITAN AREA</u>	<u>Cases</u>	<u>Rate per 100,000</u>
1. Miami, FL	2,606	46.0
2. New Orleans-Metairie-Kenner, LA	513	43.0
3. Baton Rouge, LA	336	41.6
4. Jackson, MS	200	36.7
5. Washington, DC-VA-MD-WV	1,969	34.5
6. Baltimore-Towson, MD	922	33.8
7. Memphis, TN-MS-AR	433	32.6
8. Atlanta-Sandy Springs-Marietta, GA	1,626	30.3
9. New York, NY-NJ-PA	5,344	28.1
10. Jacksonville, FL	382	28.1
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<i>United States</i>	<i>50,161</i>	<i>15.9</i>



Maryland Epidemiological Data

Maryland Adult/Adolescent HIV Trends

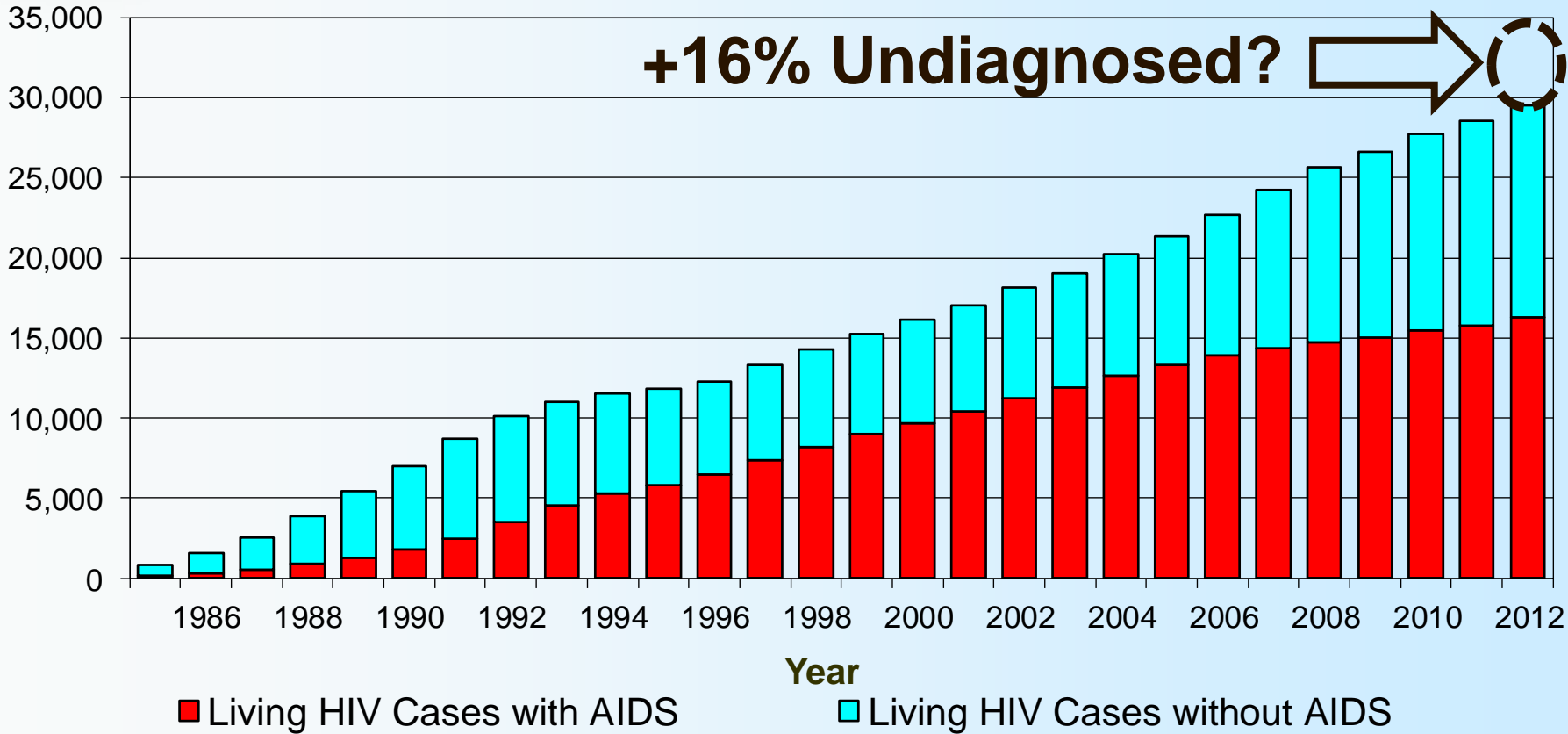


Using data as reported through 12/31/2013

Maryland Adult/Adolescent Living HIV Cases



Number of Cases



Using data as reported through 12/31/2013

Maryland Adult/Adolescent HIV Statistics

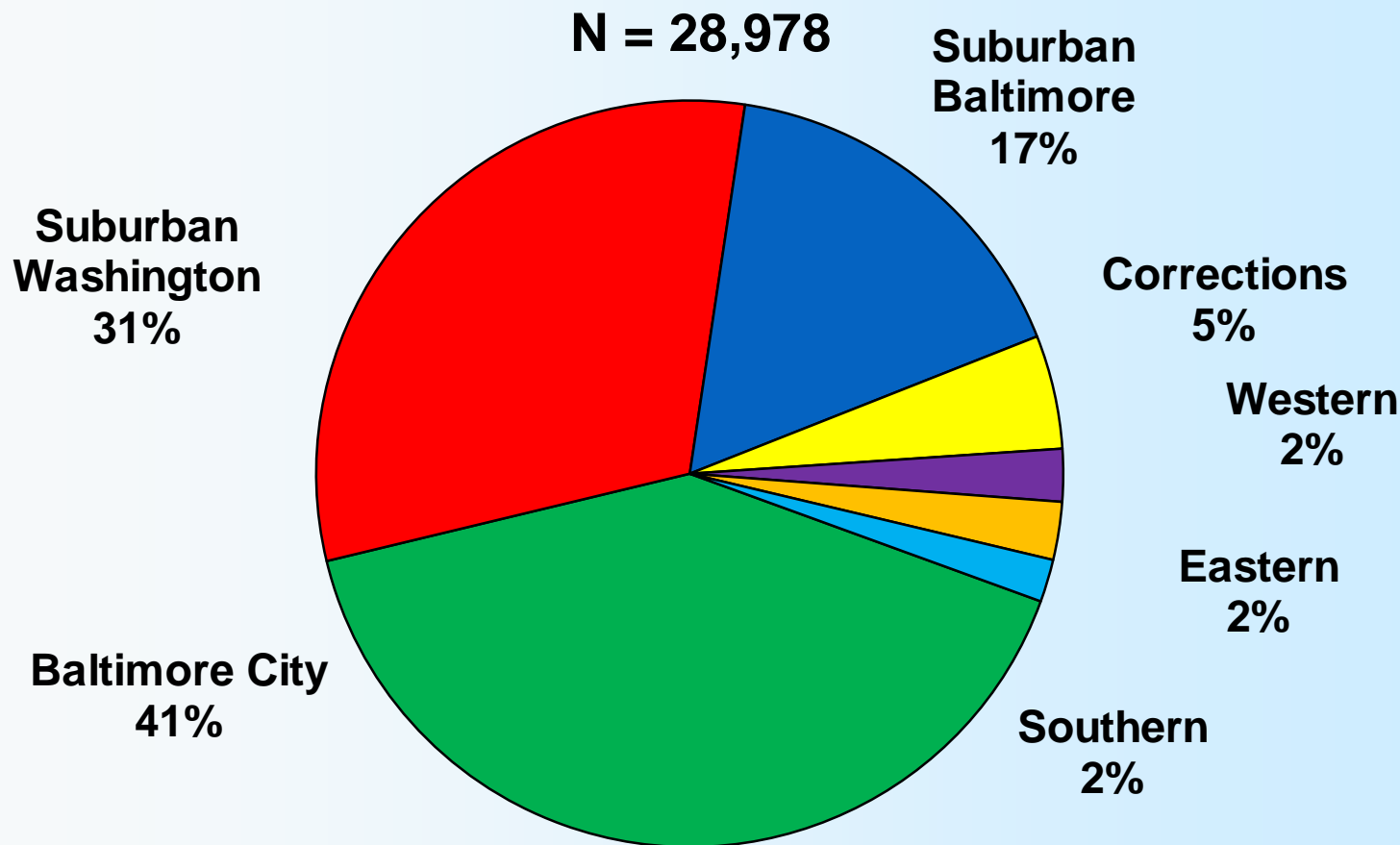


Reported Diagnoses (during 2012)	No.	per 100,000	
HIV	1,415	28.7	
AIDS	829	16.8	
Deaths Among AIDS Cases (during 2012)	No. 362		
Living Cases (on 12/31/12)	No.	per 100,000	1 in X
HIV without AIDS	12,928	262.6	
HIV with AIDS	16,050	326.0	
Total HIV	28,978	588.5	170

Using data as reported through 12/31/2013



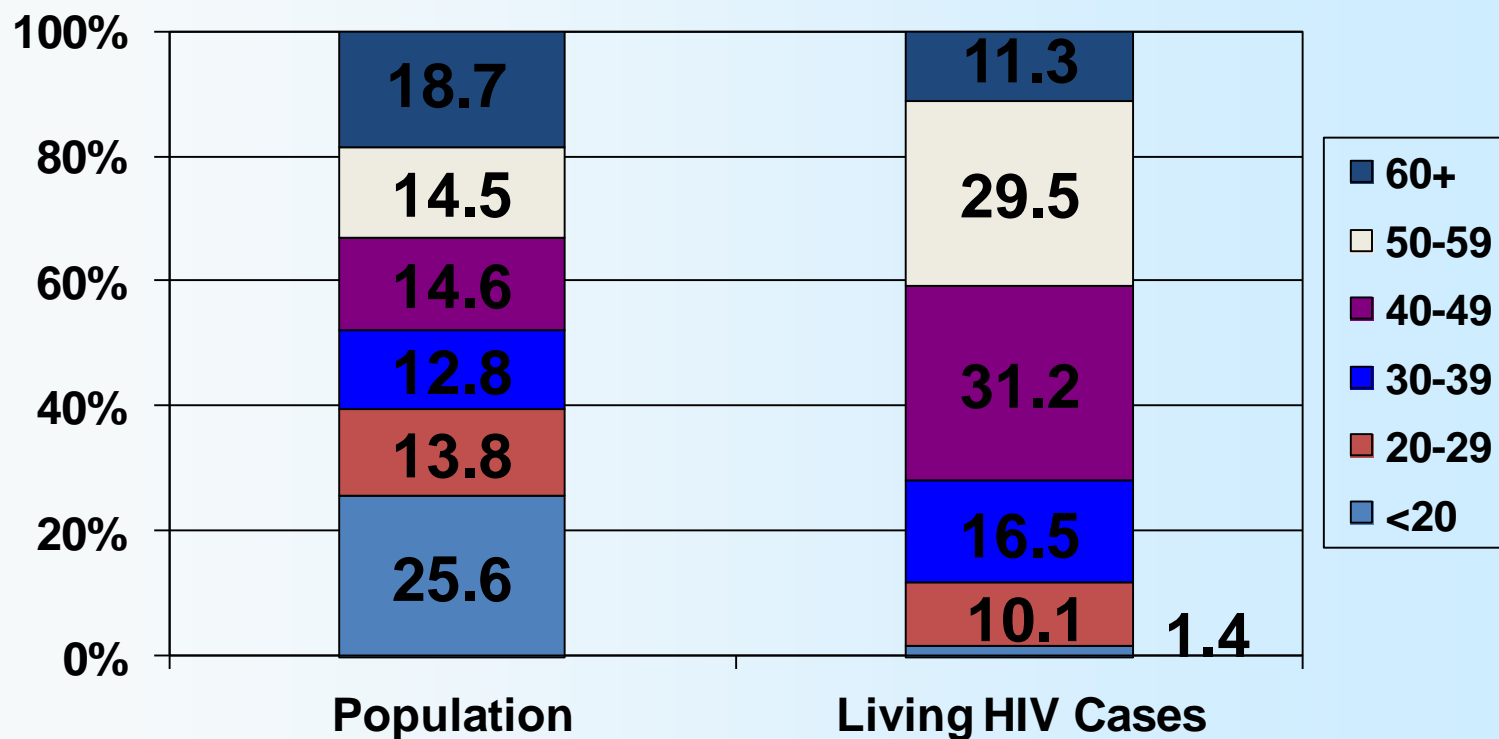
Maryland Adult/Adolescent Living HIV Cases by Region, 12/31/12



Using data as reported through 12/31/2013

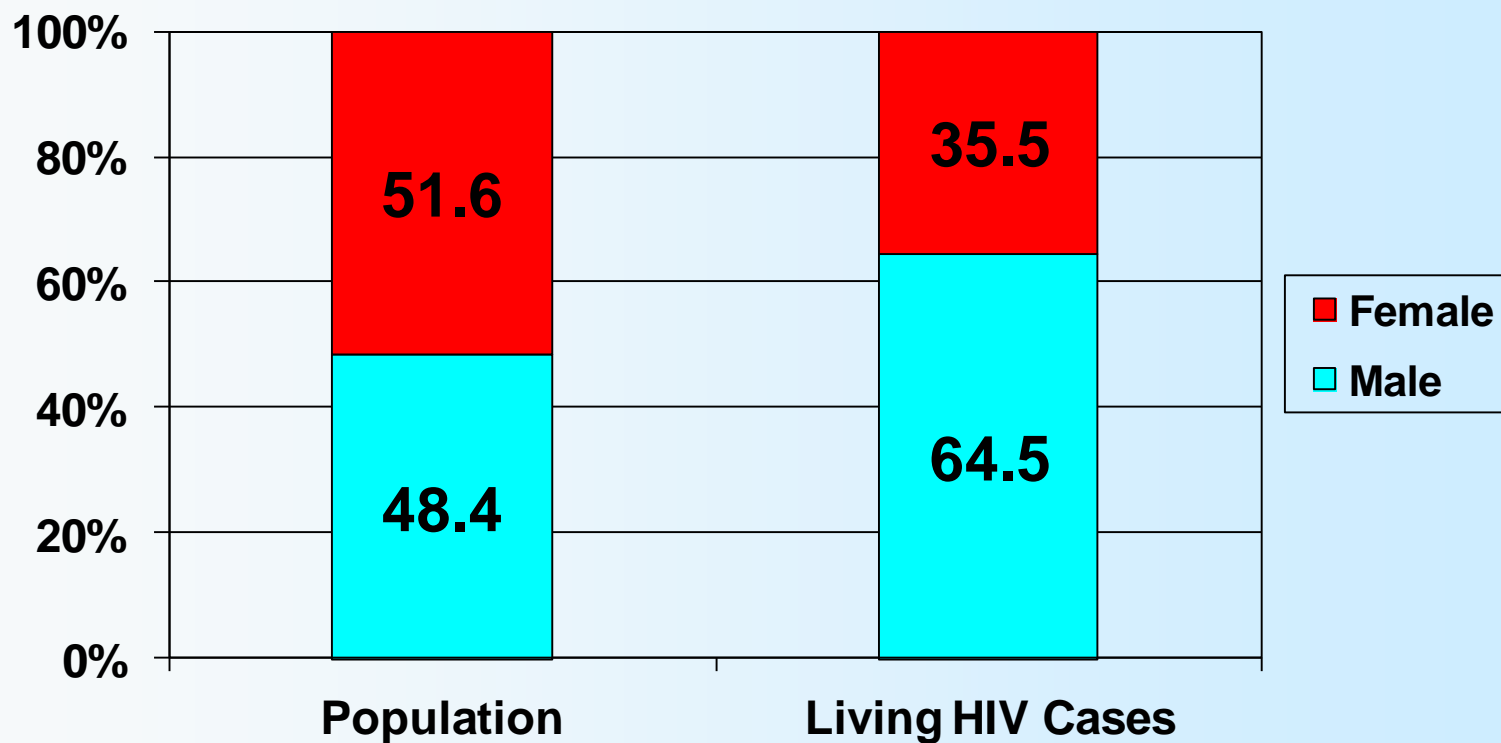


Maryland Population and Living HIV Cases by Age



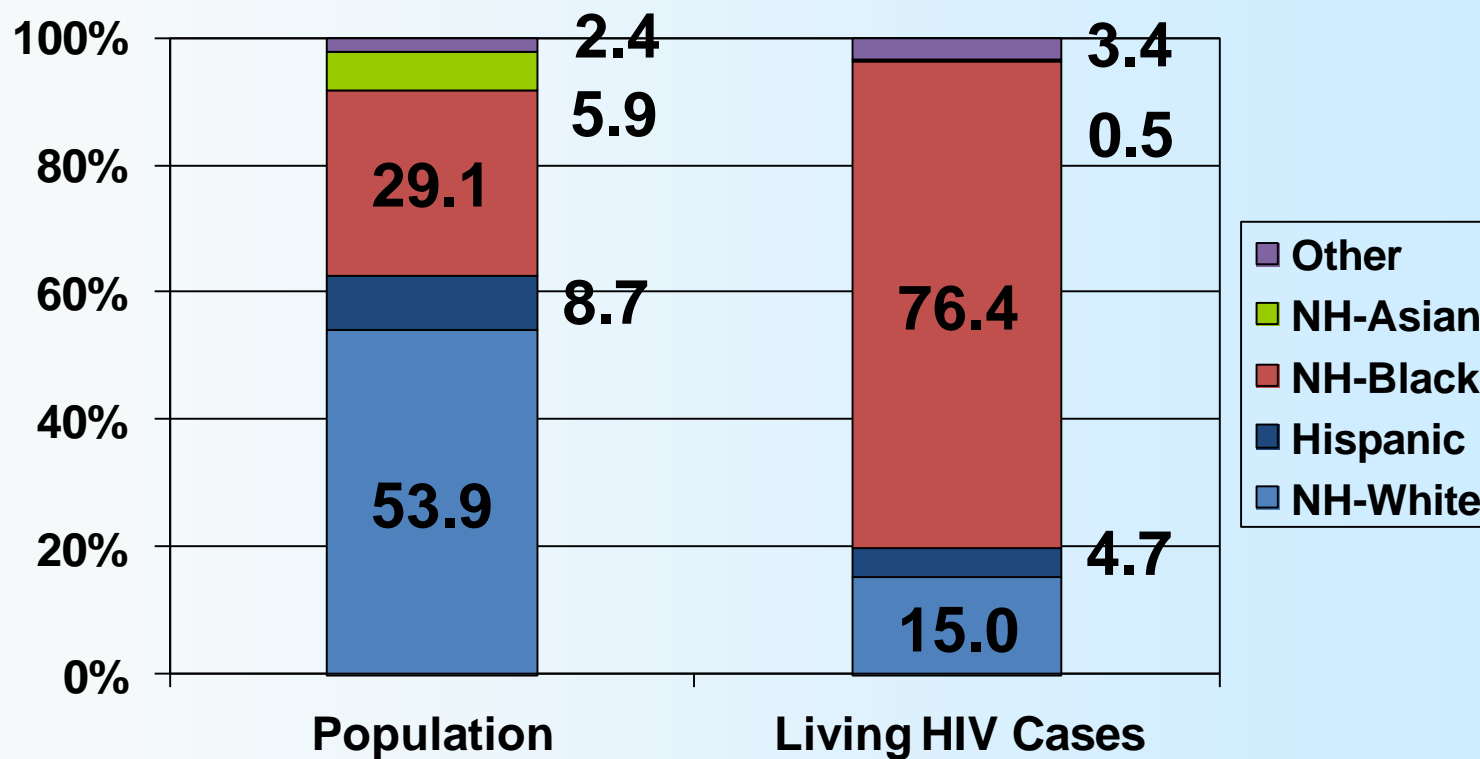
Population on 7/1/12, Cases on 12/31/12
as reported through 12/31/13

Maryland Adult/Adolescent Population and Living HIV Cases by Sex at Birth



Population on 7/1/12, Cases on 12/31/12
as reported through 12/31/13

Maryland Adult/Adolescent Population and Living HIV Cases by Race/Ethnicity

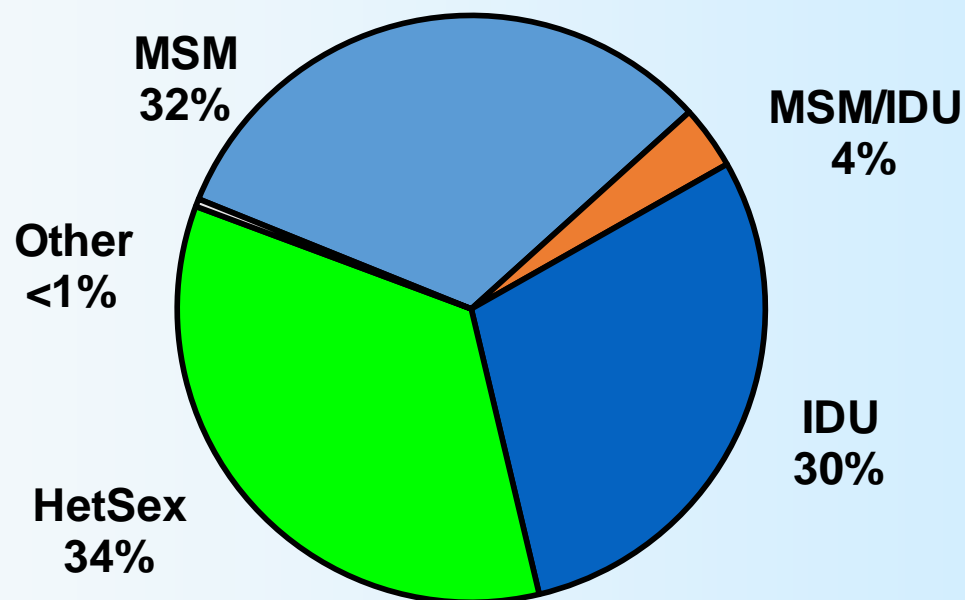


Population on 7/1/12, Cases on 12/31/12
as reported through 12/31/13



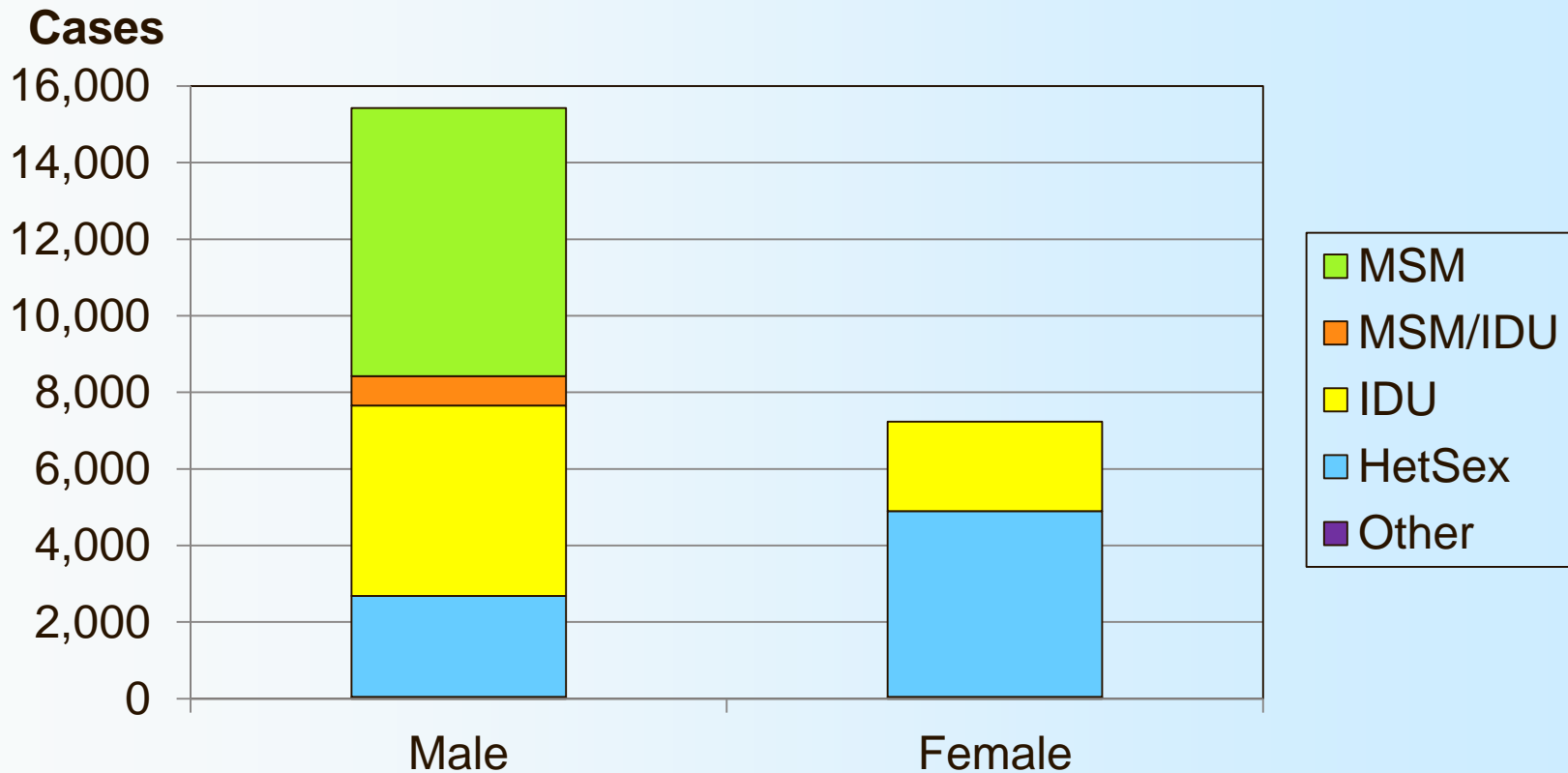
Maryland Adult/Adolescent Living HIV Cases 12/31/12 by Exposure Category

N (with Risk) = 21,757 (75% of Total)



Using data as reported through 12/31/2013

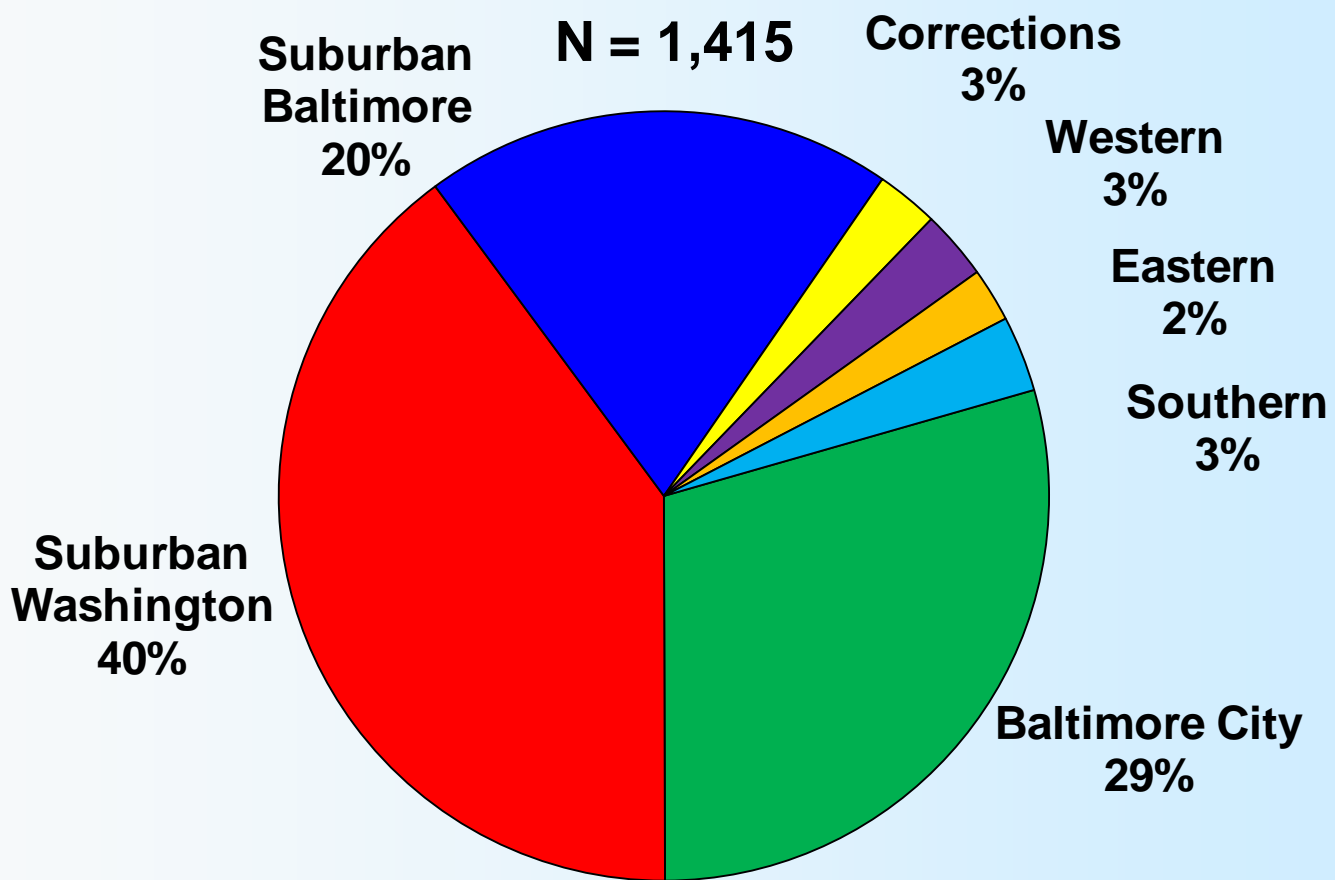
Maryland Adult/Adolescent Living HIV Cases 12/31/12 by Exposure Category and Sex at Birth



Using data as reported through 12/31/2013

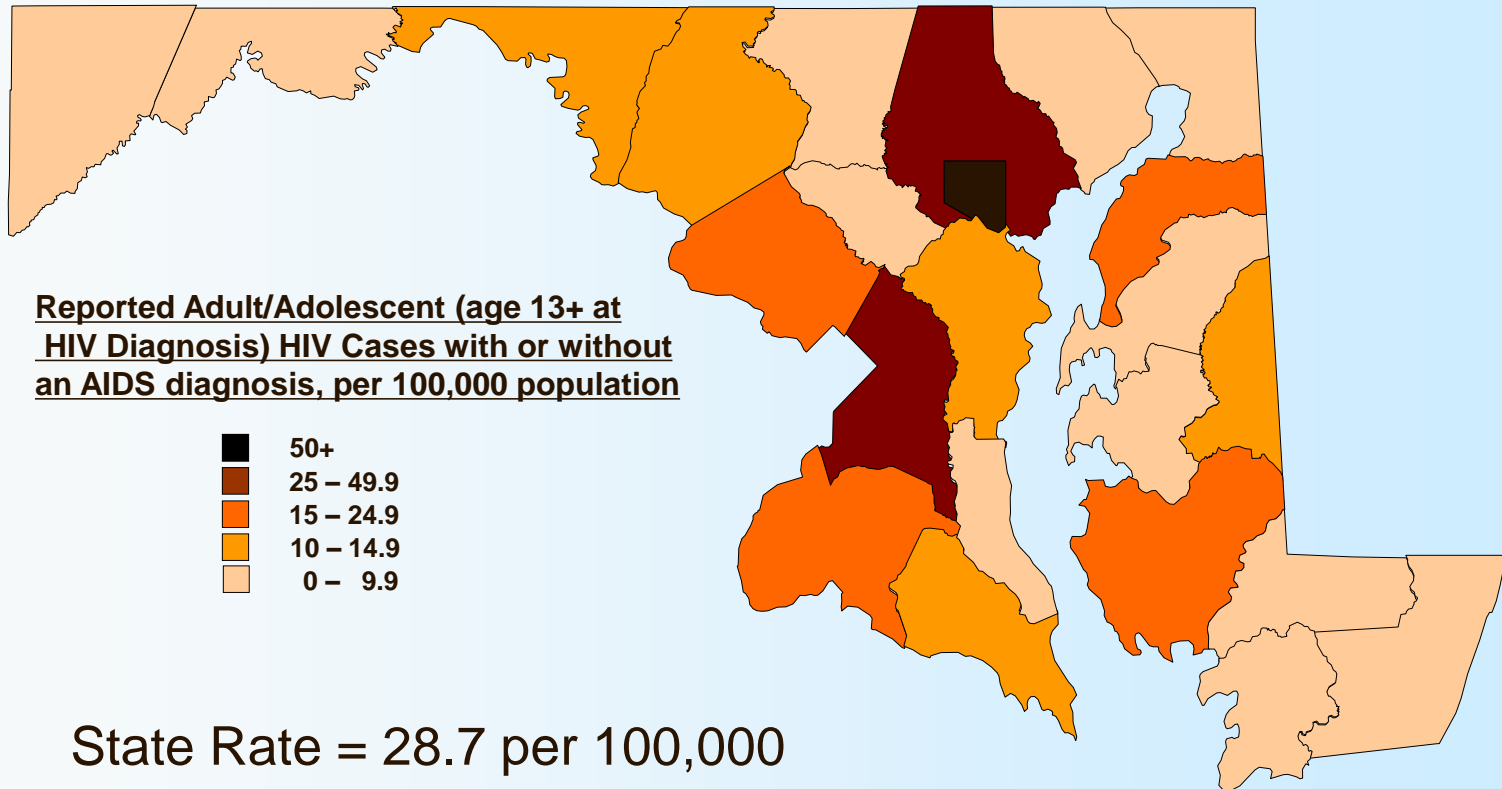


Maryland Adult/Adolescent 2012 HIV Diagnoses by Region



Using data as reported through 12/31/2013

Maryland Adult/Adolescent 2012 HIV Diagnosis Rates by Jurisdiction



Using data as reported through 12/31/2013

Maryland Adult/Adolescent 2012 HIV Diagnoses (N=1,415)

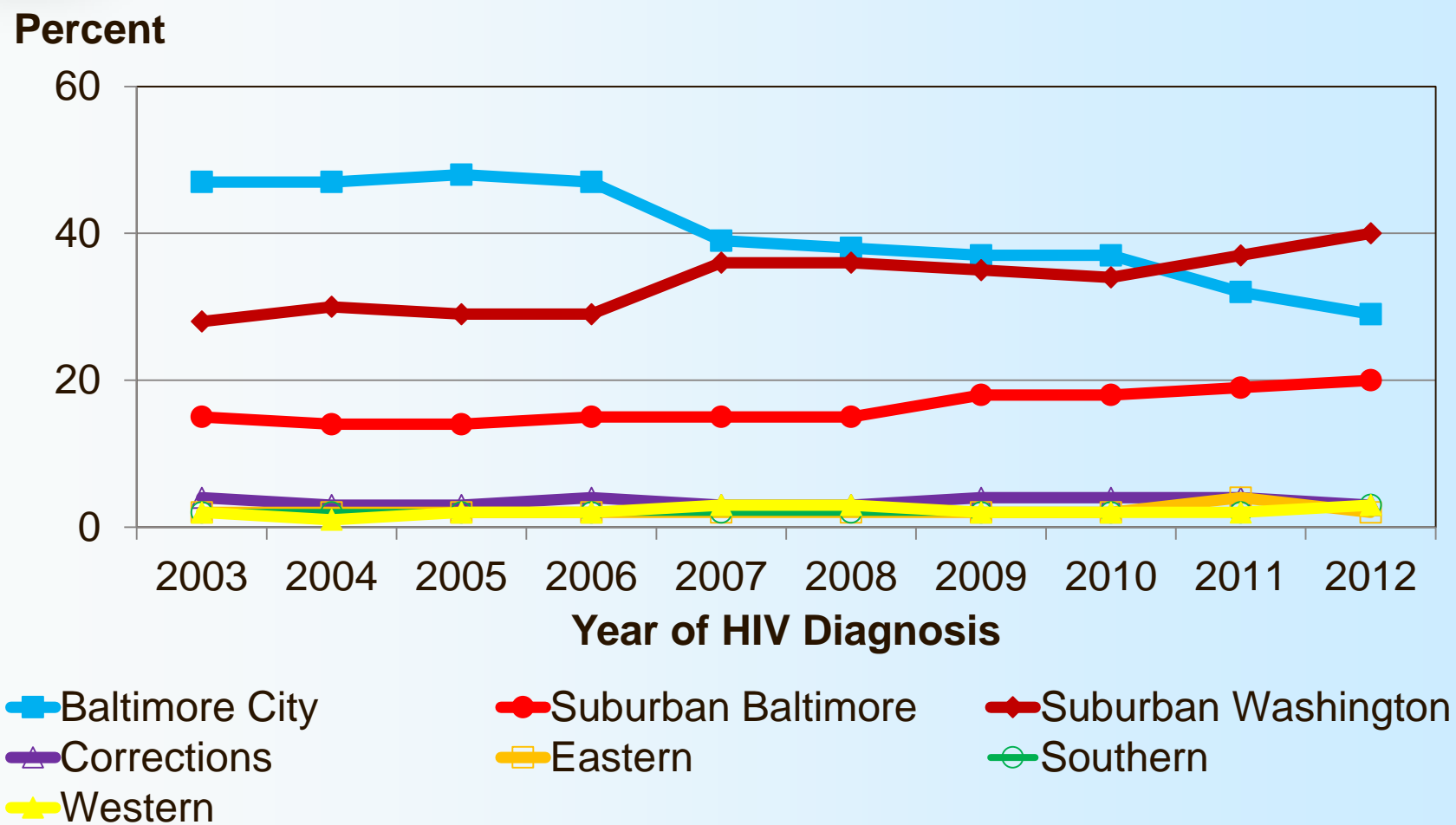


- Linkage to Care: 73% had a CD4 or VL test within 3 months of HIV diagnosis
- CD4 at Diagnosis: 81% had a CD4 test within 12 months of HIV diagnosis, and the median value was 368 cells/microliter
- Late HIV Diagnosis: 30% had an AIDS diagnosis within 12 months of their HIV diagnosis



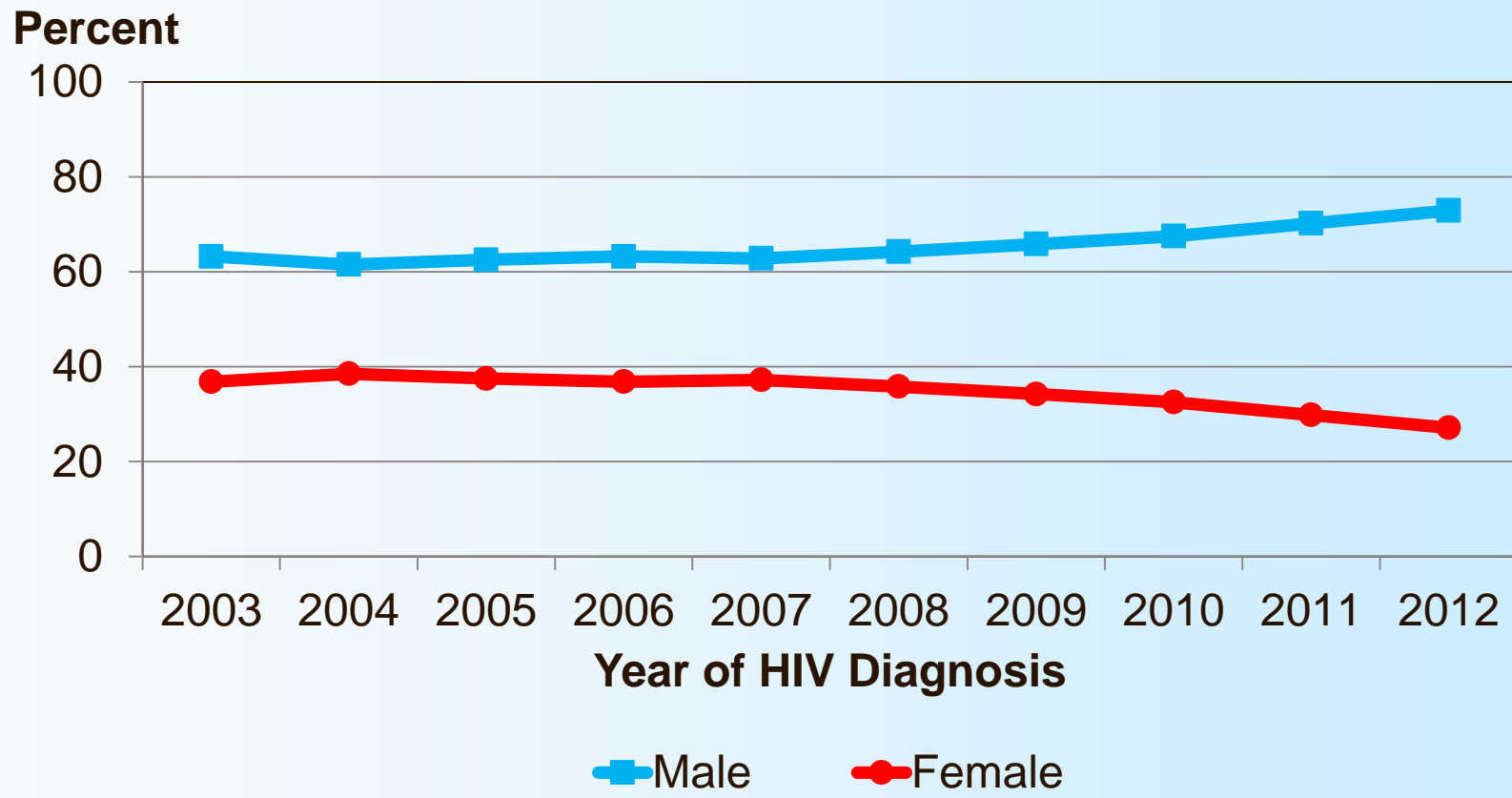
Epidemiological Trends

Maryland Adult/Adolescent HIV Diagnosis Trends by Region



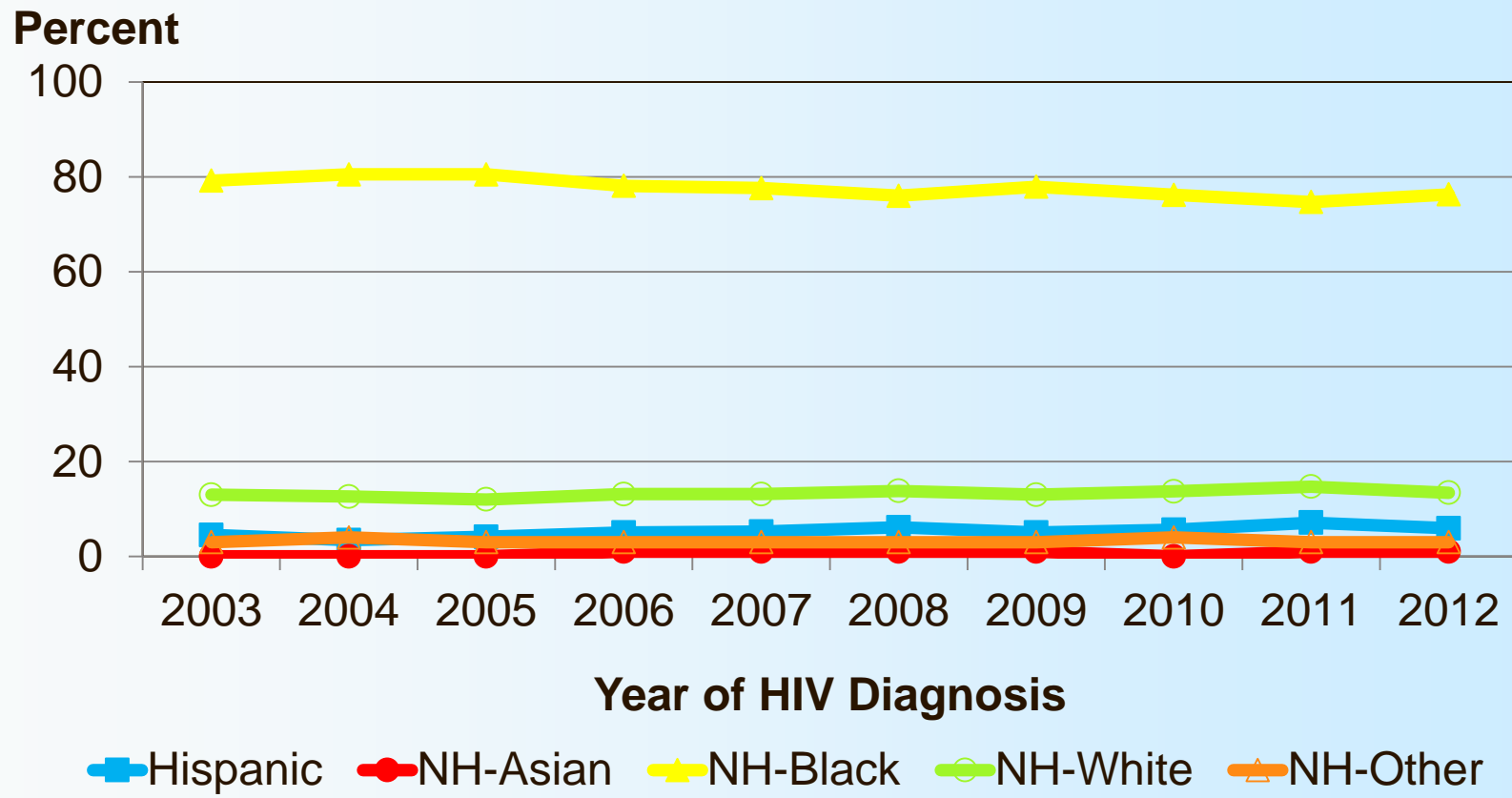
Using data as reported through 12/31/2013

Maryland Adult/Adolescent HIV Diagnosis Trends by Sex at Birth



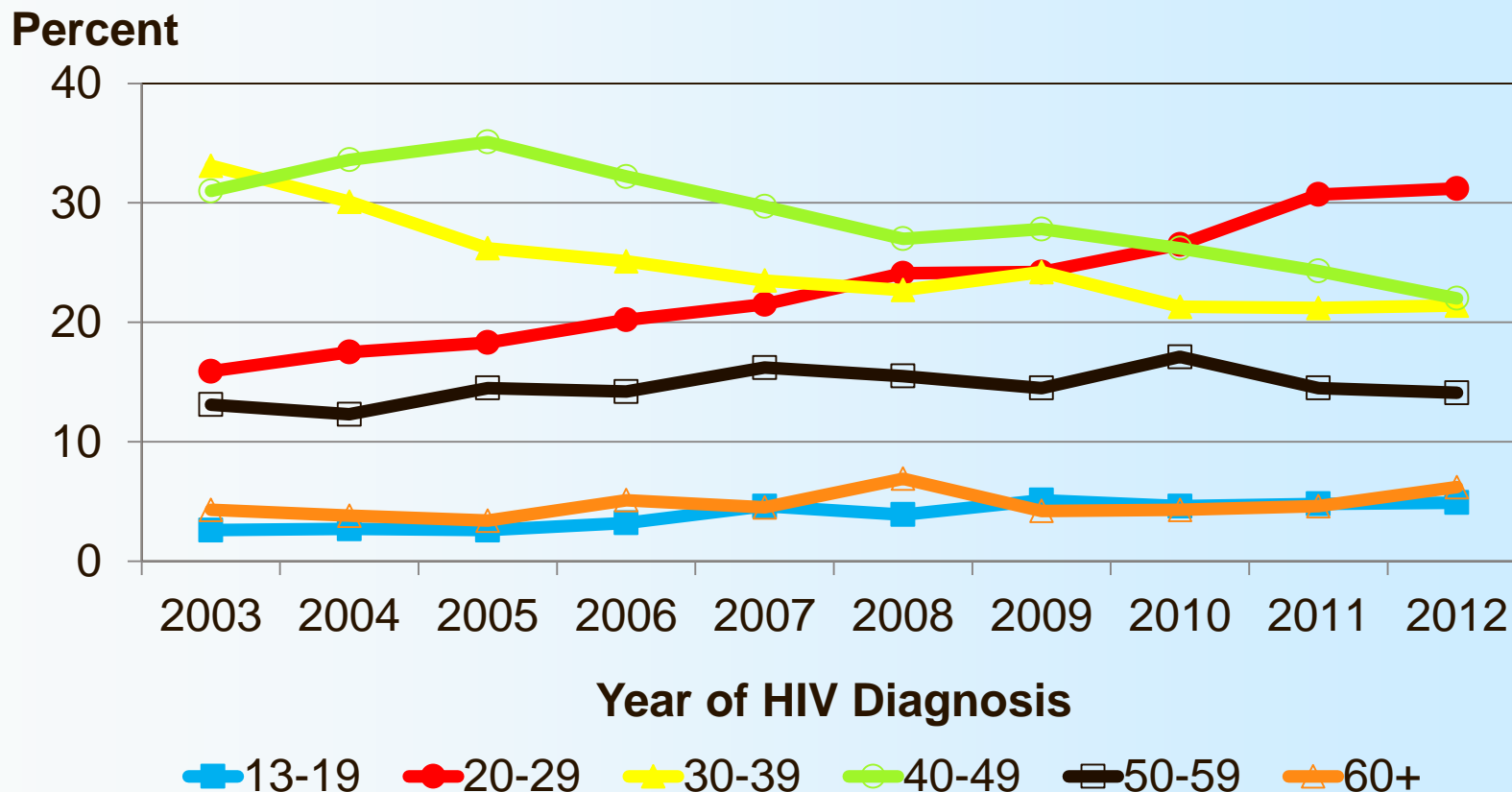
Using data as reported through 12/31/2013

Maryland Adult/Adolescent HIV Diagnosis Trends by Race/Ethnicity



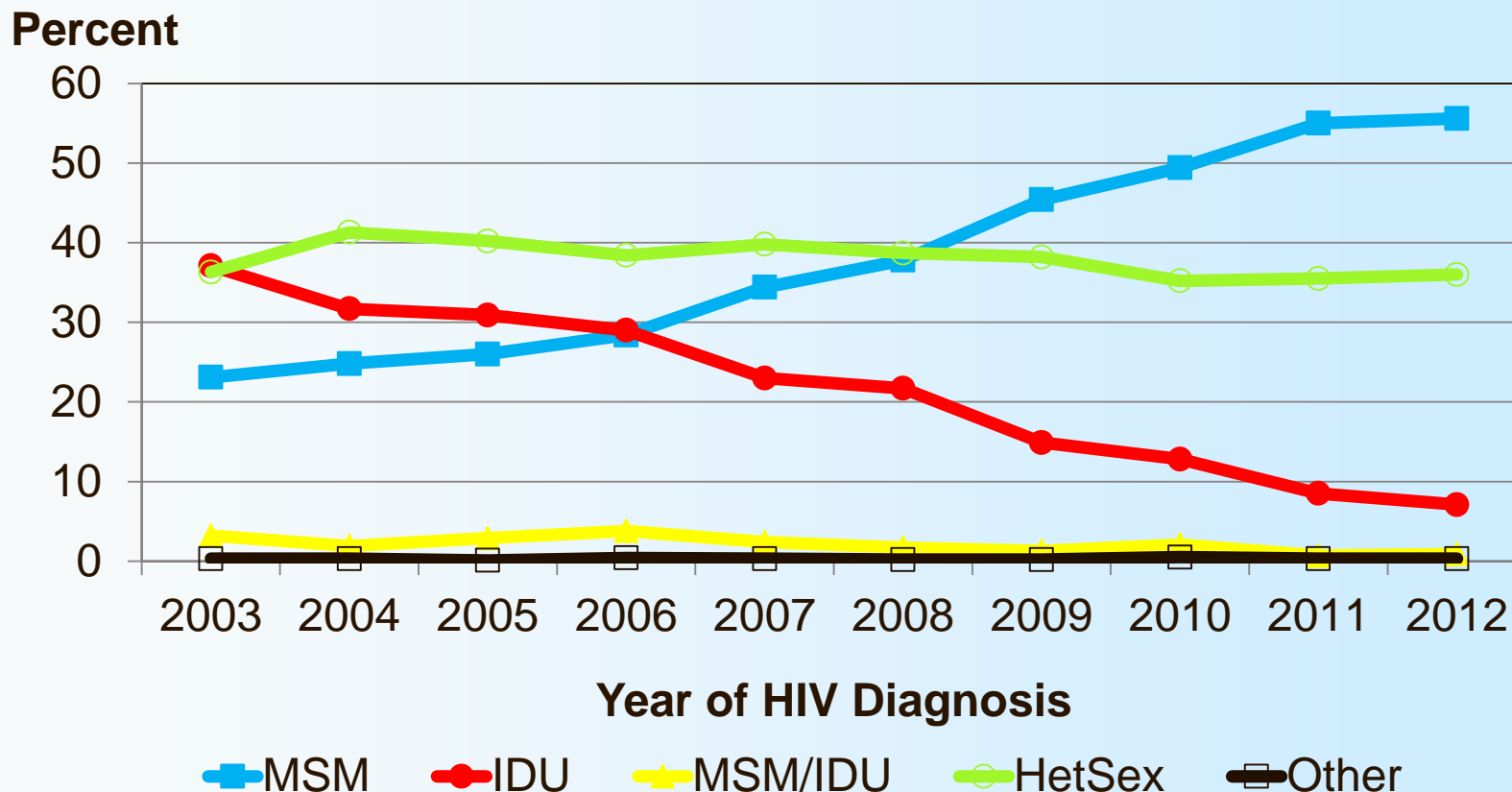
Using data as reported through 12/31/2013

Maryland Adult/Adolescent HIV Diagnosis Trends by Age at Diagnosis



Using data as reported through 12/31/2013

Maryland Adult/Adolescent HIV Diagnosis Trends by Exposure Category



Using data as reported through 12/31/2013

Leading HIV Exposure Category in Maryland



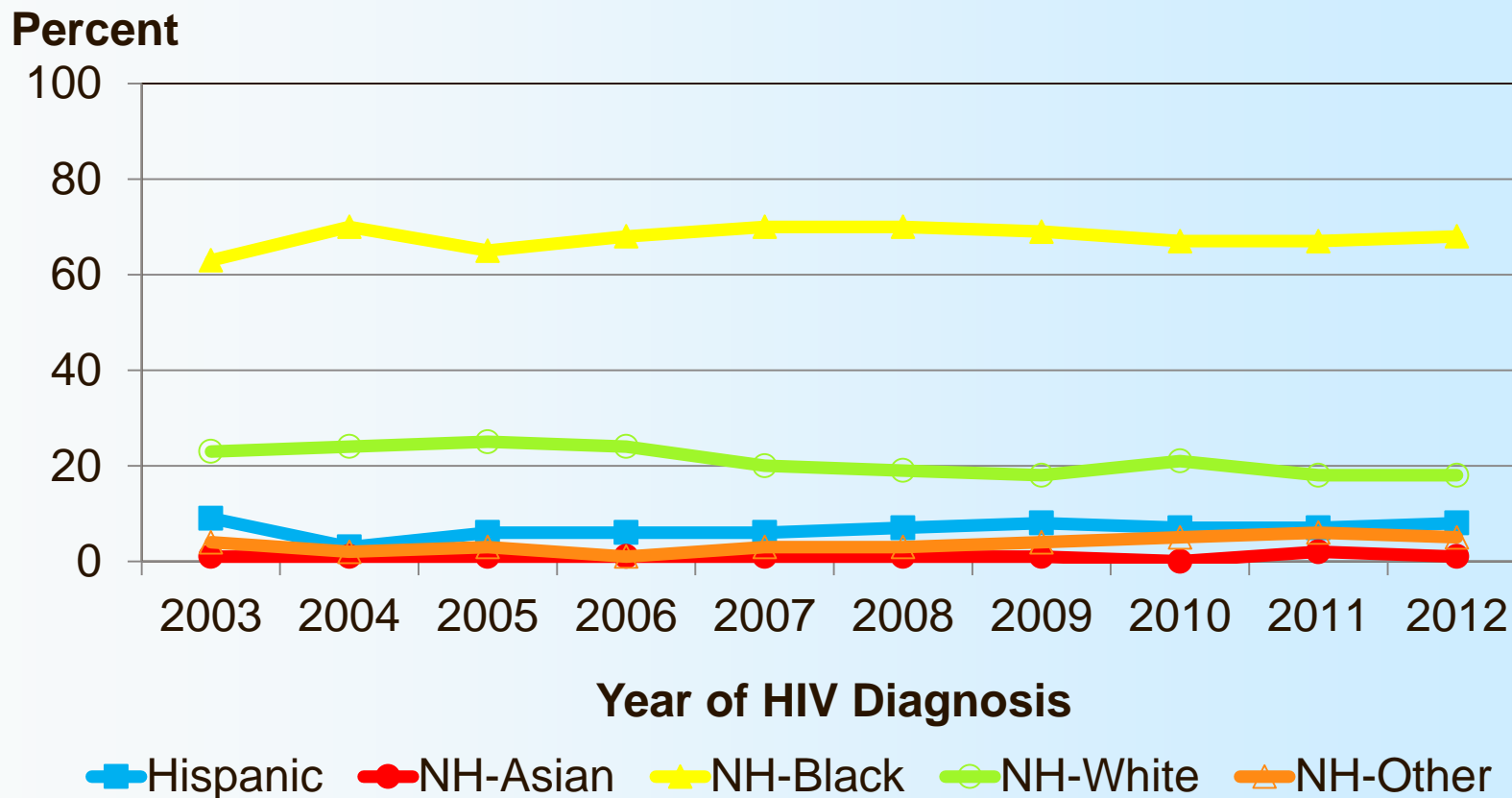
Year of HIV Diagnosis	Number of Years	Most Common HIV Exposure Category
1981-1988	8	MSM
1988-2003	16	IDU
2004-2008	5	HET
2009-2013	5	MSM



Maryland Reported HIV Diagnosis Trends

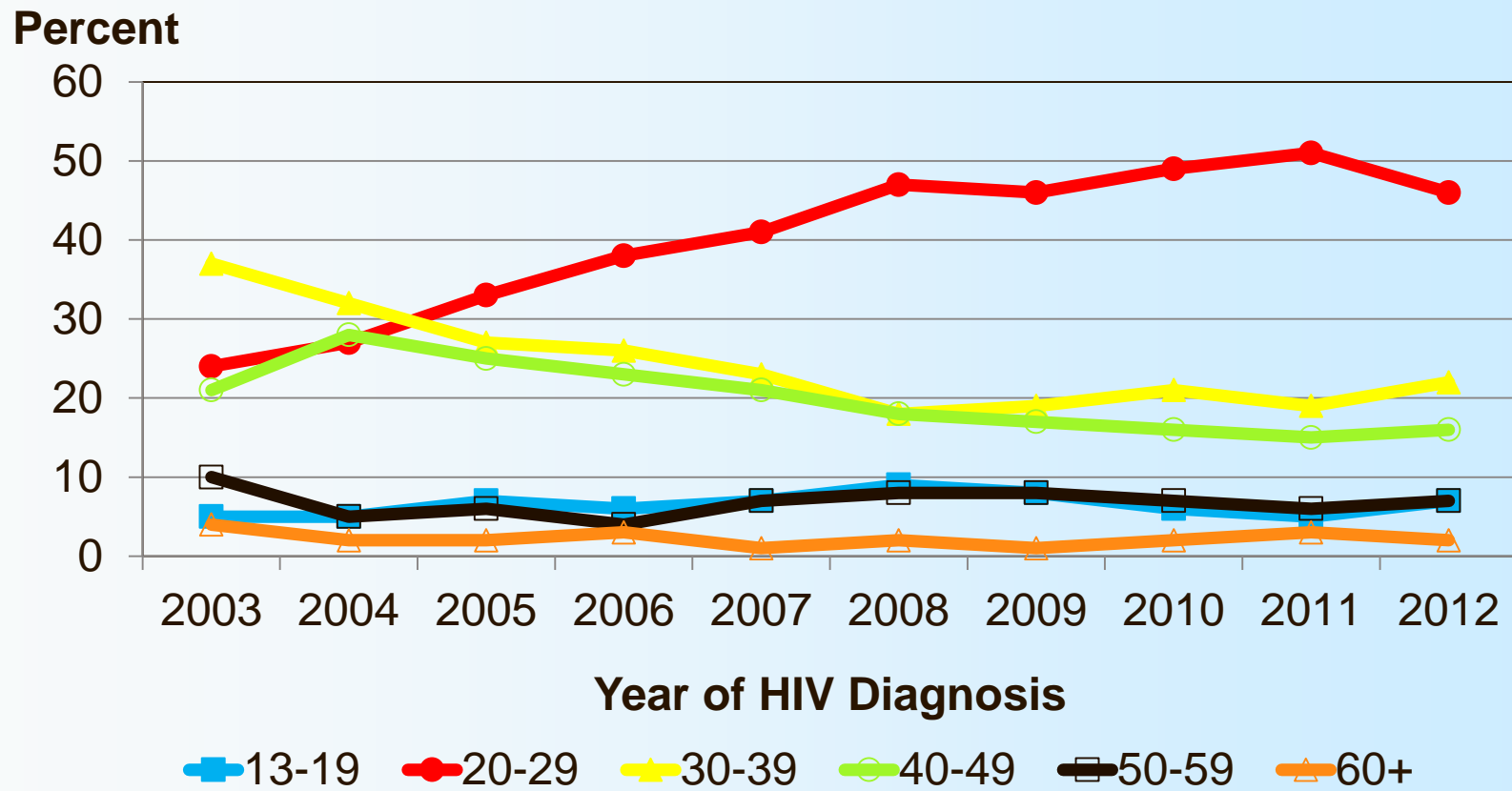
MSM Exposure

Maryland Adult/Adolescent MSM HIV Diagnosis Trends by Race/Ethnicity



Using data as reported through 12/31/2013

Maryland Adult/Adolescent MSM HIV Diagnosis Trends by Age at Diagnosis



Using data as reported through 12/31/2013

Maryland Adult/Adolescent 2012 MSM HIV Diagnoses (N=494)



- Linkage to Care: 74% had a CD4 or VL test within 3 months of HIV diagnosis
- CD4 at Diagnosis: 84% had a CD4 test within 12 months of HIV diagnosis, and the median value was 402 cells/microliter
- Late HIV Diagnosis: 25% had an AIDS diagnosis within 12 months of their HIV diagnosis

Behavioral Surveillance MSM Overview



	Wave 1 June 2004 – Apr 2005	Wave 2 Aug – Nov 2008	Wave 3 Aug – Dec 2011
Data collection method	Venue – based	Venue – based	Venue – based
Total recruited*	645	448	403
HIV prevalence	37.7%	37.5%	42.4%
Unrecognized infection	58.4%	78.4%	67.3%

Wave 4 recruitment to start in June

*MSM during past year with completed survey and HIV test

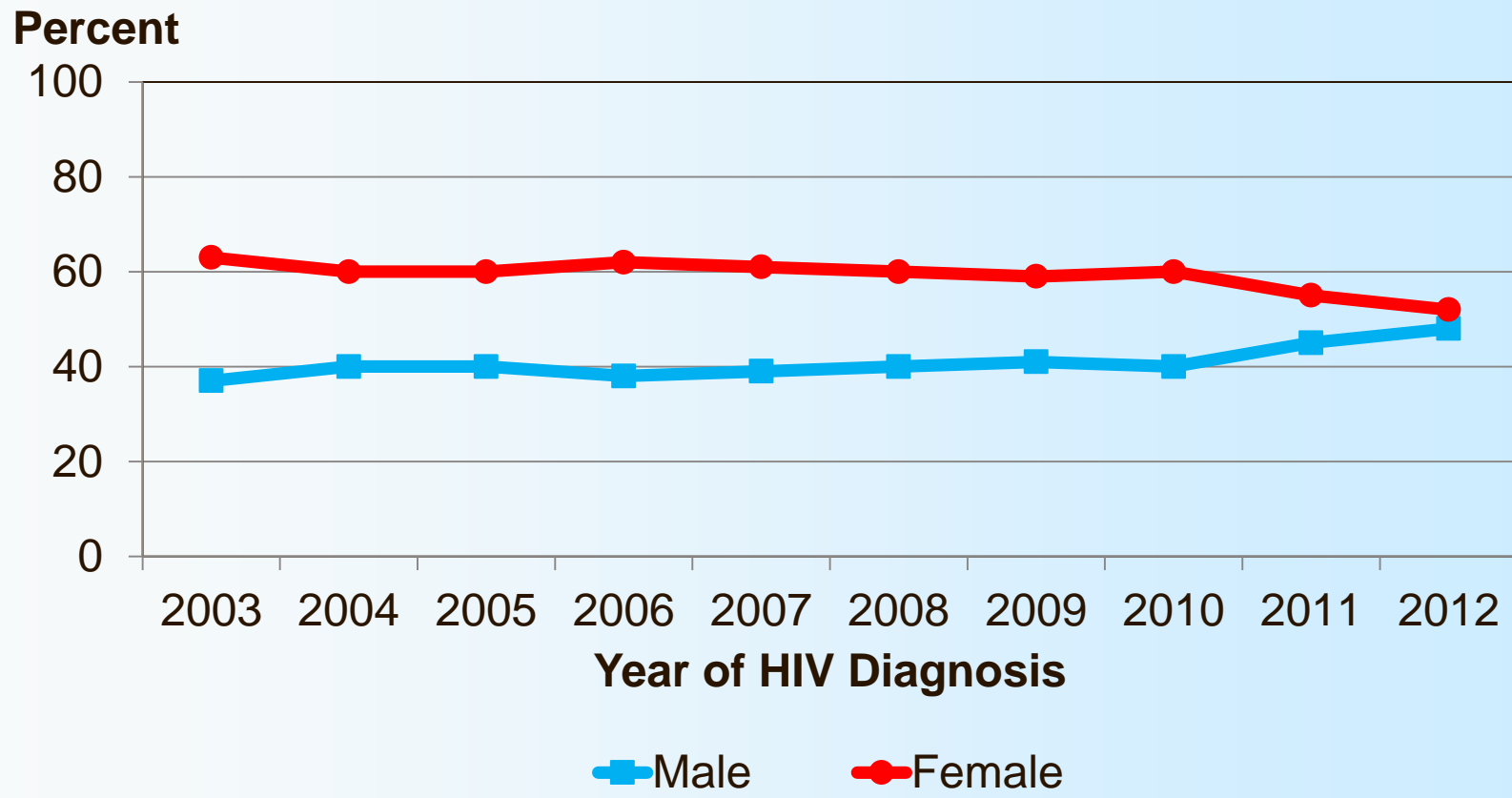


Maryland Reported HIV Diagnosis Trends

Heterosexual Exposure

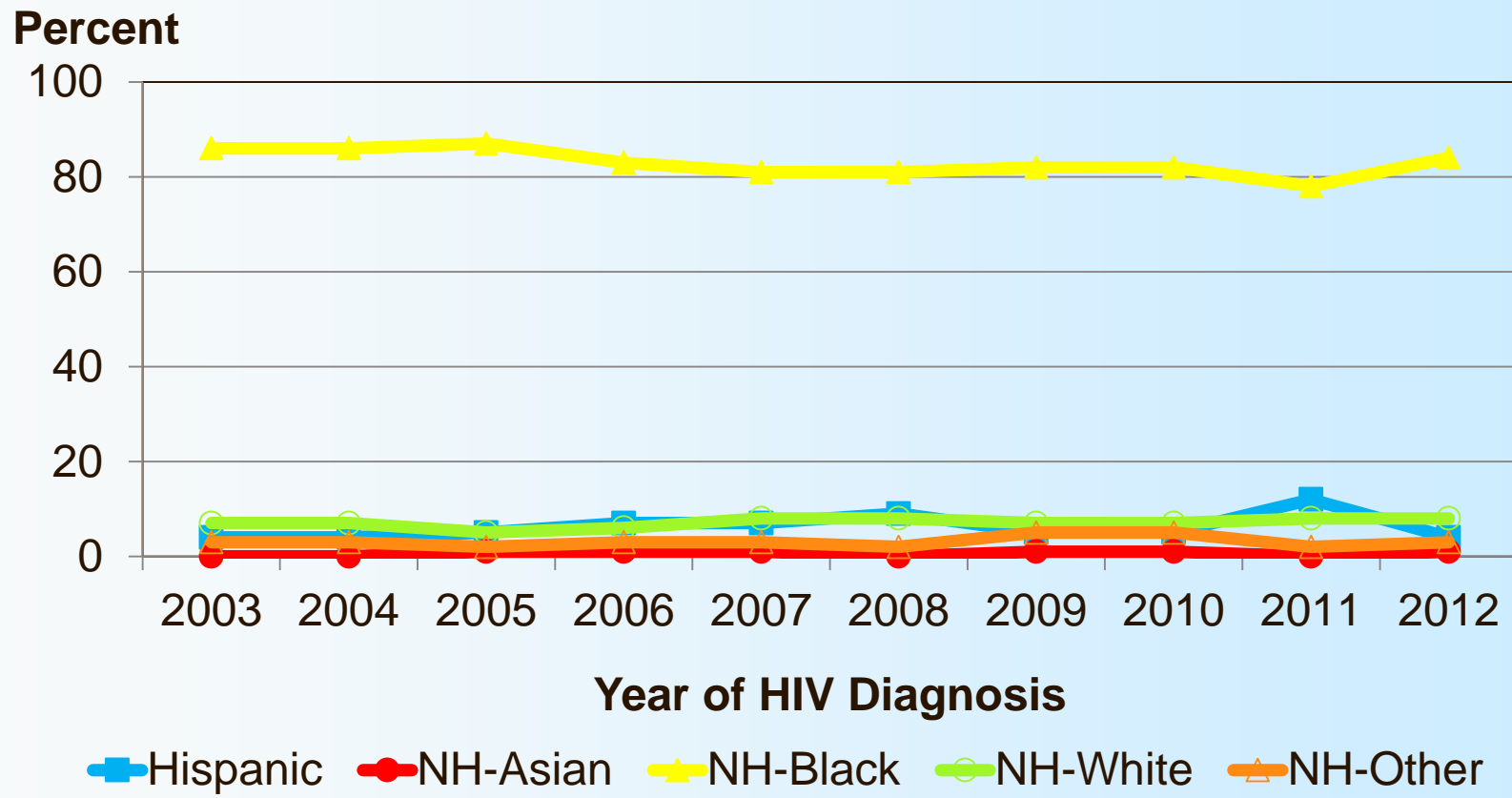


Maryland Adult/Adolescent Heterosexual HIV Diagnosis Trends by Sex at Birth



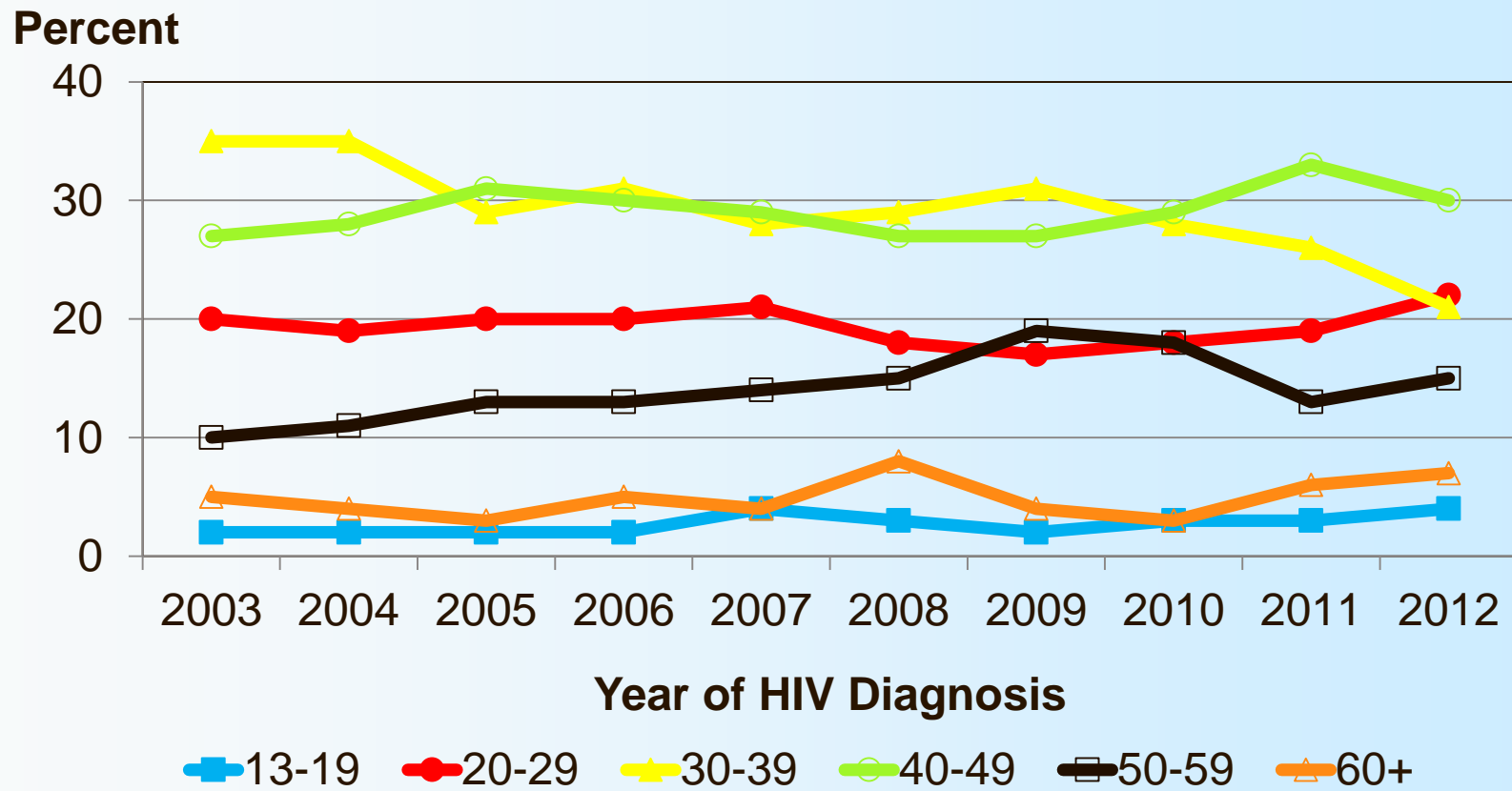
Using data as reported through 12/31/2013

Maryland Adult/Adolescent Heterosexual HIV Diagnosis Trends by Race/ Ethnicity



Using data as reported through 12/31/2013

Maryland Adult/Adolescent Heterosexual HIV Diagnosis Trends by Age at Diagnosis



Using data as reported through 12/31/2013

Maryland Adult/Adolescent 2012 Heterosexual HIV Diagnoses (N=320)



- Linkage to Care: 77% had a CD4 or VL test within 3 months of HIV diagnosis
- CD4 at Diagnosis: 85% had a CD4 test within 12 months of HIV diagnosis, and the median value was 350 cells/microliter
- Late HIV Diagnosis: 34% had an AIDS diagnosis within 12 months of their HIV diagnosis

Using data as reported through 12/31/2013

Behavioral Surveillance HET Overview



	Wave 1 July – Oct 2007	Wave 2 Sept – Dec 2010	Wave 3 Sept – Dec 2013
Data collection method	Venue – based	Respondent Driven	Respondent Driven
Total recruited*	332	338	428
HIV prevalence	3.9%	6.3%	6.6%
Unrecognized infection	83.3%	62.5%	35.3%

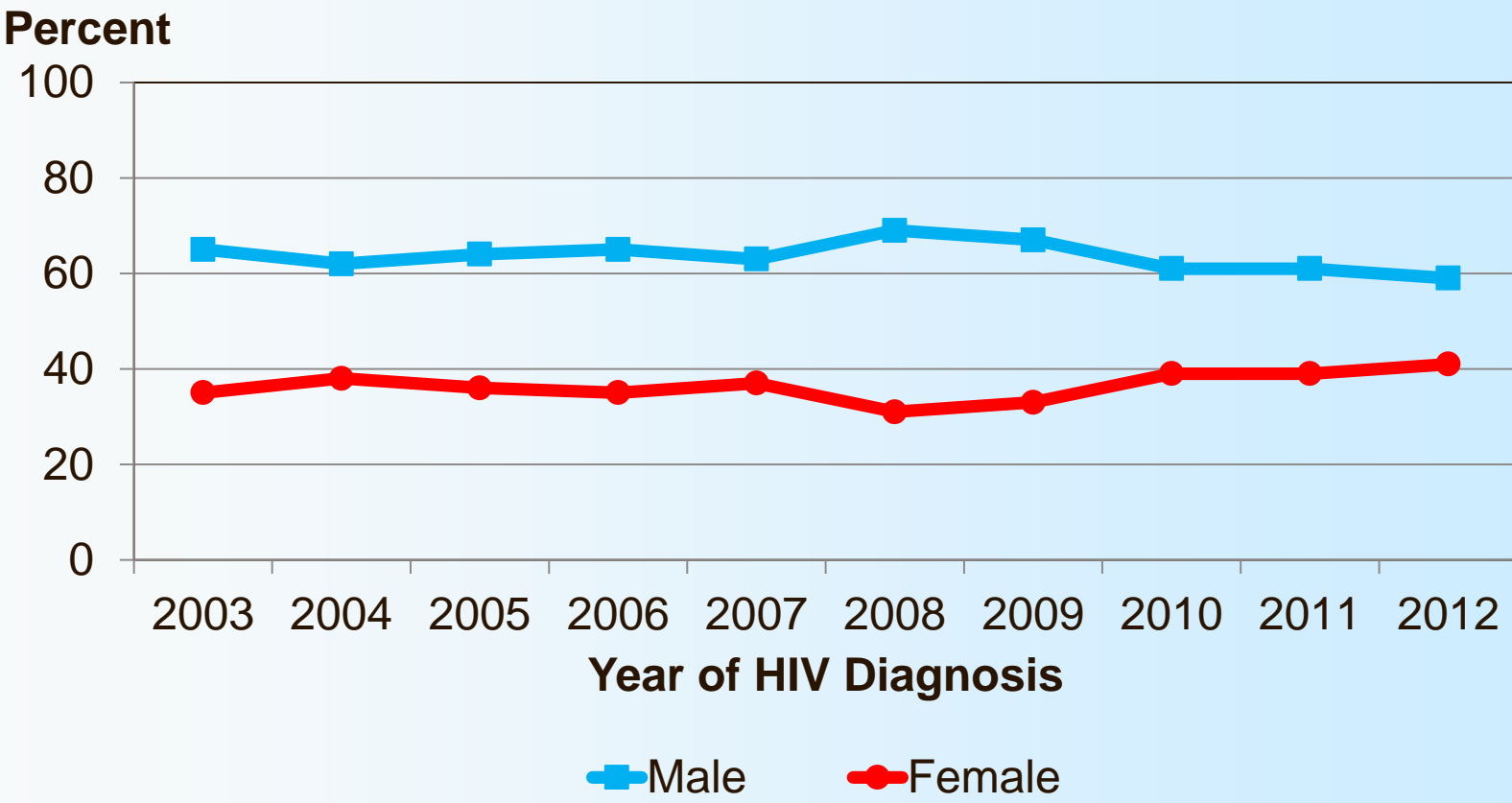
*Heterosexual during past year with completed survey and HIV test



Maryland Reported HIV Diagnosis Trends

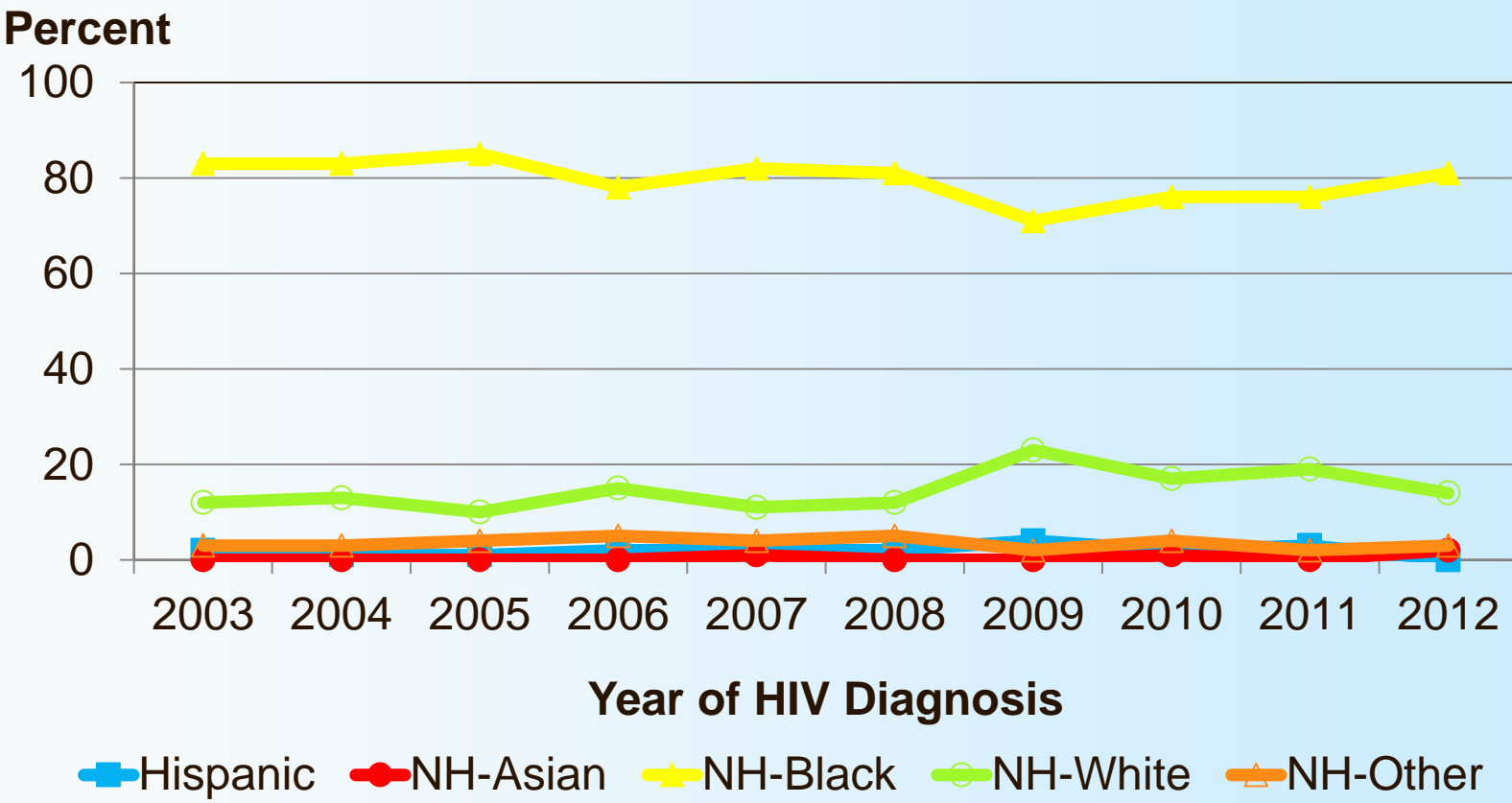
IDU Exposure

Maryland Adult/Adolescent IDU HIV Diagnosis Trends by Sex at Birth



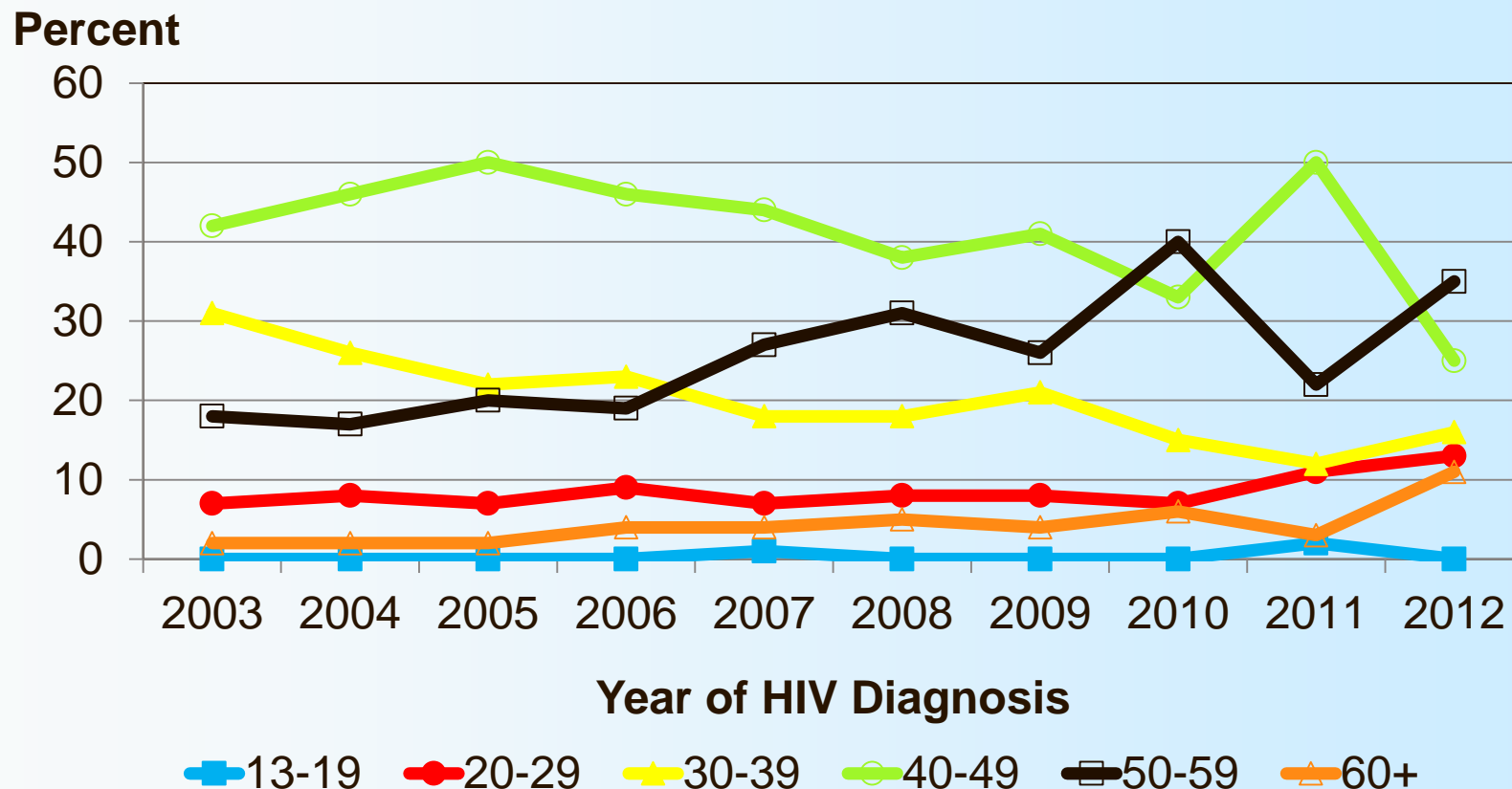
Using data as reported through 12/31/2013

Maryland Adult/Adolescent IDU HIV Diagnosis Trends by Race/ Ethnicity



Using data as reported through 12/31/2013

Maryland Adult/Adolescent IDU HIV Diagnosis Trends by Age at Diagnosis



Using data as reported through 12/31/2013

Maryland Adult/Adolescent 2012 IDU HIV Diagnoses (N=63)



- Linkage to Care: 62% had a CD4 or VL test within 3 months of HIV diagnosis
- CD4 at Diagnosis: 76% had a CD4 test within 12 months of HIV diagnosis, and the median value was 338 cells/microliter
- Late HIV Diagnosis: 40% had an AIDS diagnosis within 12 months of their HIV diagnosis

Using data as reported through 12/31/2013

Behavioral Surveillance IDU Overview



	Wave 1 Aug 2006 – Jan 2007	Wave 2 Sept – Dec 2009	Wave 3 Aug – Dec 2012
Data collection method	Respondent Driven	Respondent Driven	Respondent Driven
Total recruited*	539	507	620
HIV prevalence	11.9%	16.2%	23.2%
Unrecognized infection	50%	48%	27.8%

*IDU during past year with completed survey and HIV test

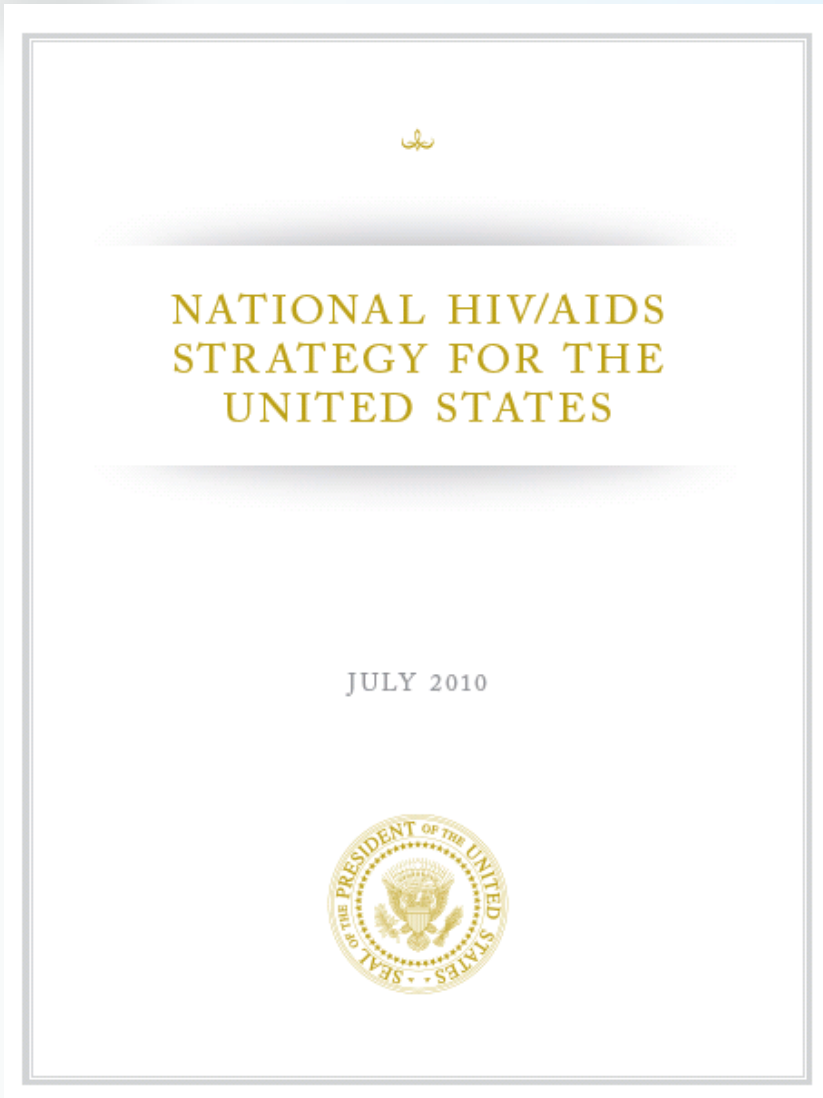


Moving Forward

NHAS 2010



- Reducing new HIV infections
- Increasing access to care and improving health outcomes for people living with HIV
- Reducing HIV-related disparities and health inequities



NHAS Goal 1

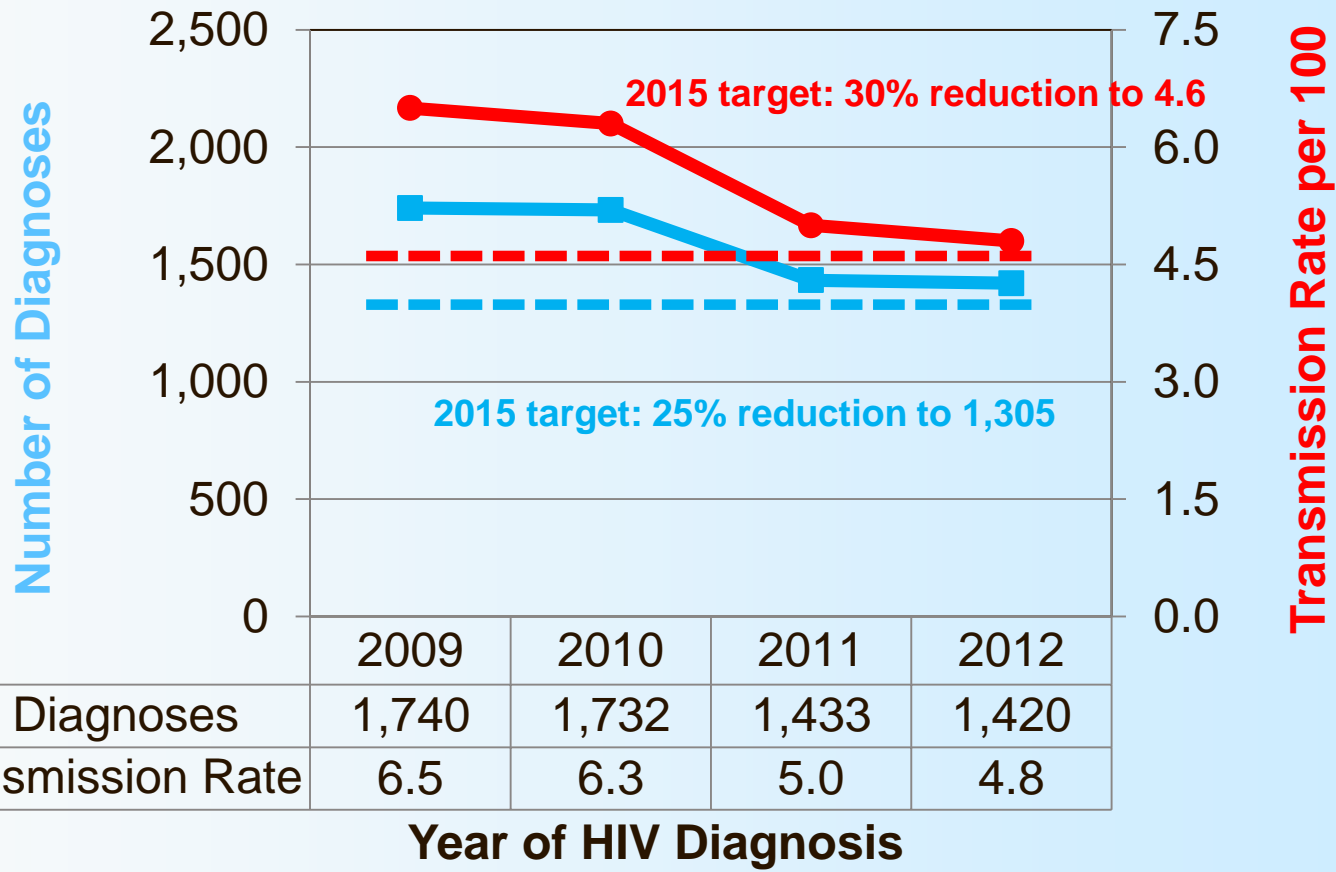
Reducing Incidence



- By 2015, lower the annual number of new HIV infections by 25%
 - Reduce the HIV transmission rate by 30%
 - Increase from 79% to 90% the percentage of people living with HIV who know their status



NHAS Goal 1 Progress Maryland Data

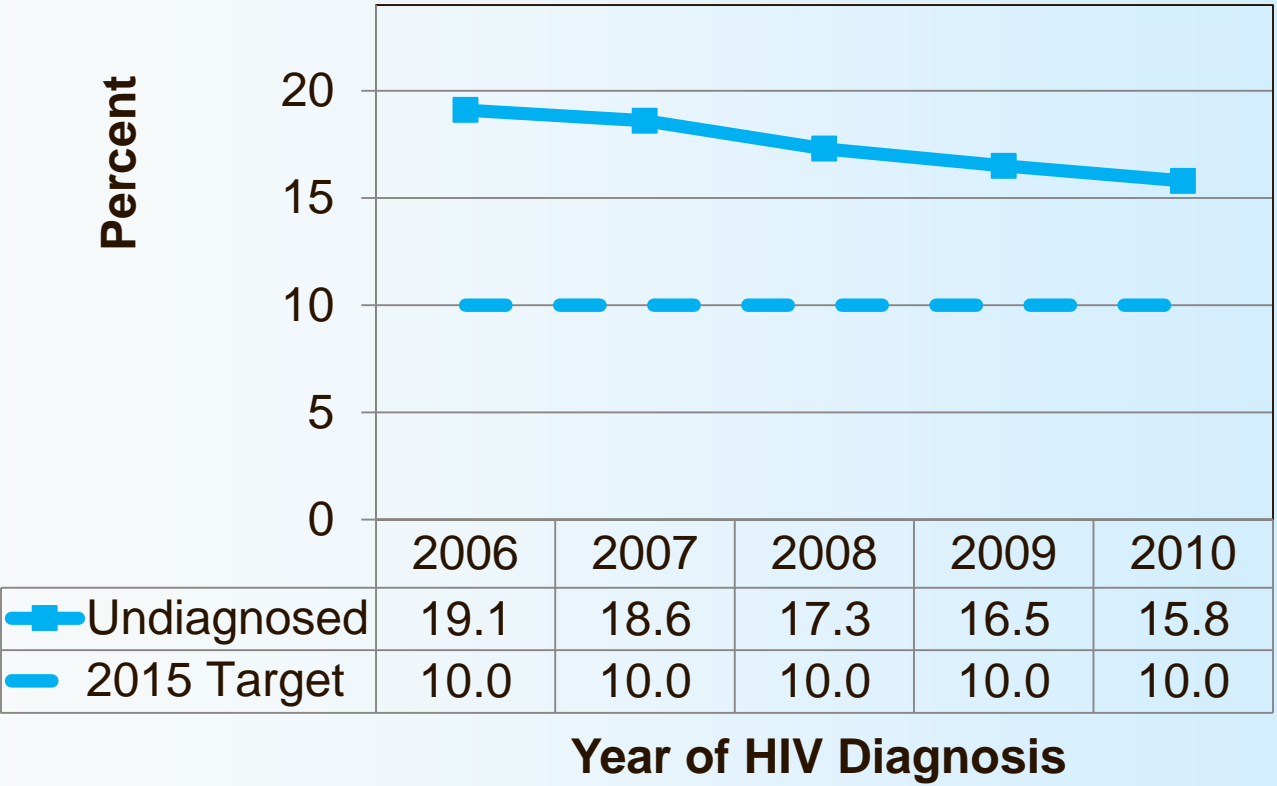


Using data as reported through 12/31/2013



NHAS Goal 1 Progress National Data

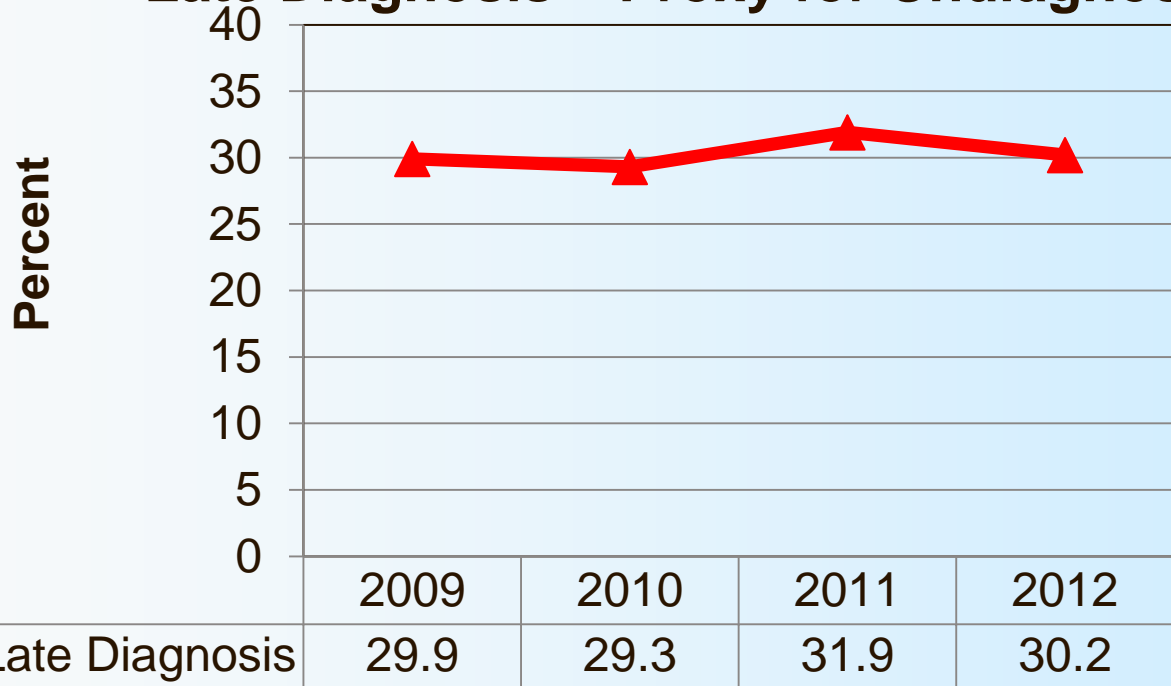
Reduce Percent Undiagnosed to 10% by 2015





NHAS Goal 1 Progress Maryland Data

Late Diagnosis – Proxy for Undiagnosed



Year of HIV Diagnosis

Using data as reported through 12/31/2013

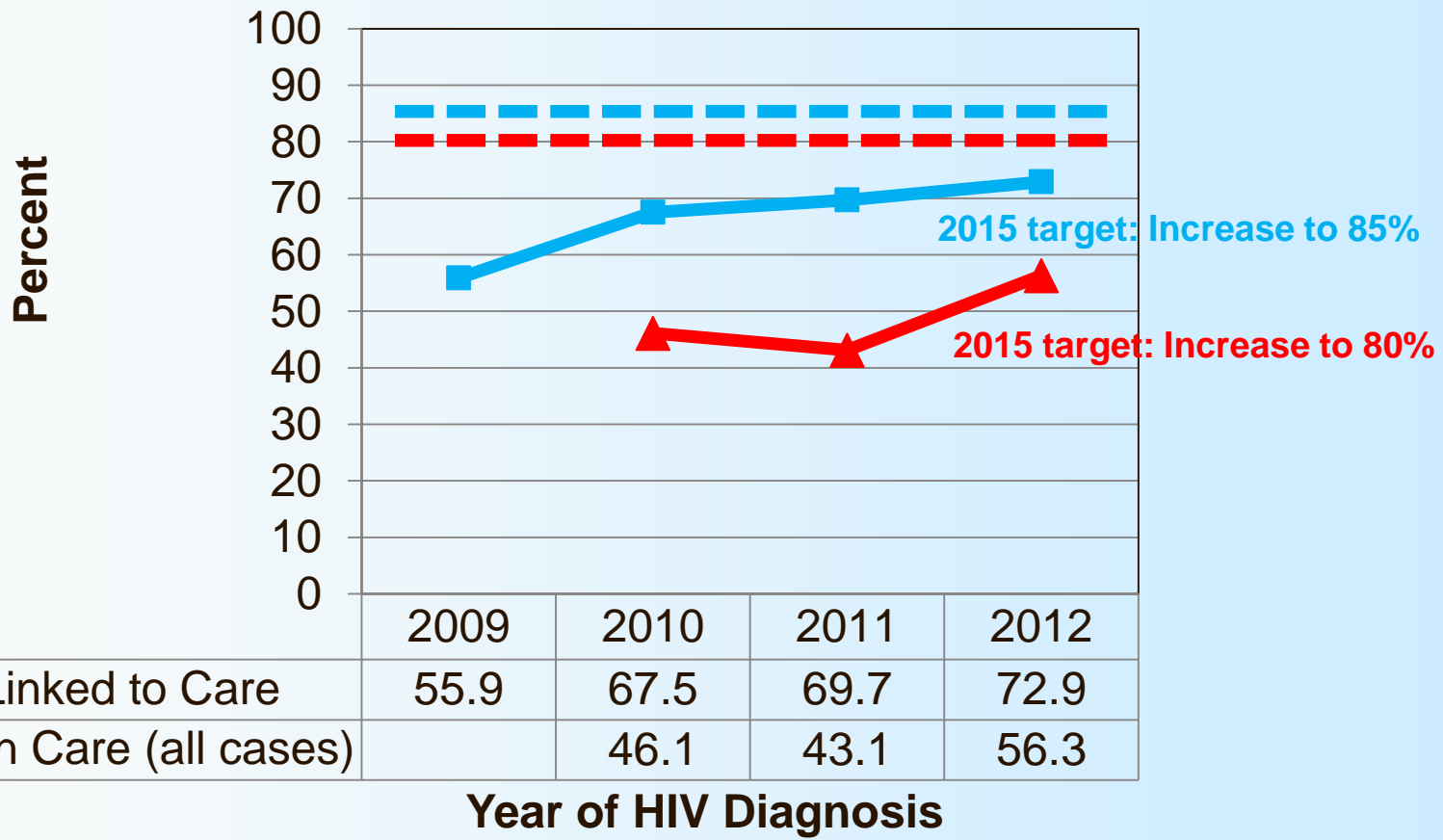
NHAS Goal 2 Increasing Access



- By 2015:
 - Increase the proportion of newly diagnosed patients linked to clinical care within three months of their HIV diagnosis from 65 percent to 85 percent
 - Increase the proportion of Ryan White HIV/AIDS Program clients who are in continuous care (at least 2 visits for routine HIV medical care in 12 months at least 3 months apart) from 73 percent to 80 percent



NHAS Goal 2 Progress Maryland Data



Using data as reported through 12/31/2013

NHAS Goal 3

Reducing Disparities

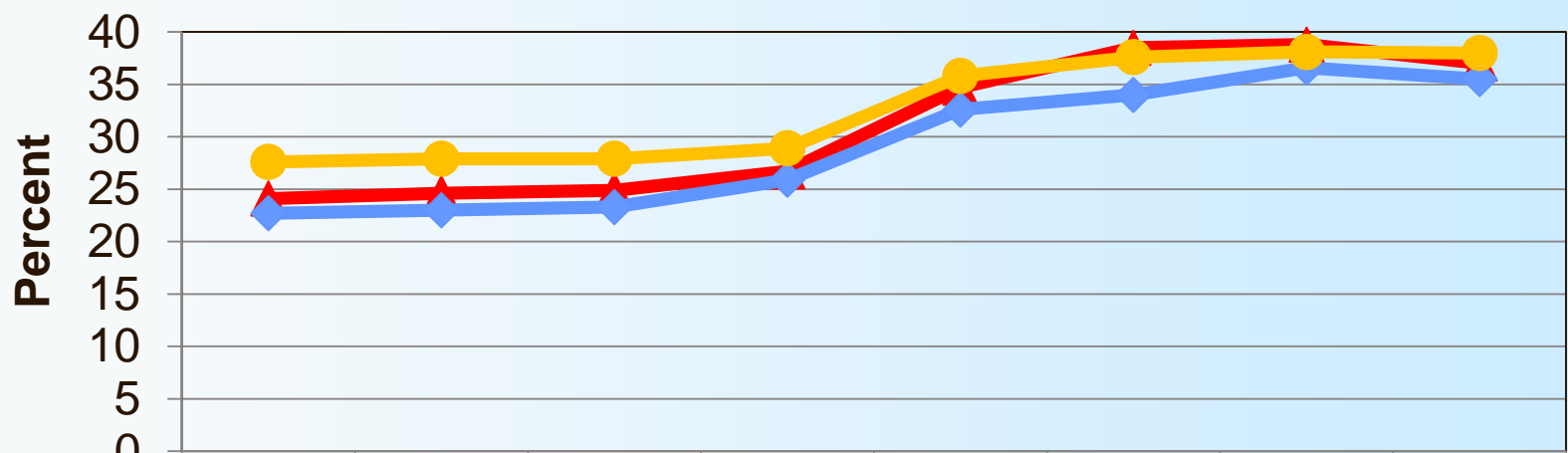


- By 2015:
 - Increase the proportion of HIV diagnosed gay and bisexual men with undetectable viral load by 20 percent.
 - Increase the proportion of HIV diagnosed Blacks with undetectable viral load by 20 percent.
 - Increase the proportion of HIV diagnosed Latinos with undetectable viral load by 20 percent.

NHAS Goal 3 Progress Maryland Data



Percent PLWH with Viral Suppression (<400 c/ml)



	2011 Q1	2011 Q2	2011 Q3	2011 Q4	2012 Q1	2012 Q2	2012 Q3	2012 Q4
MSM	24.1	24.6	24.9	26.7	34.7	38.5	38.8	37.0
NH-Black	22.7	23.0	23.3	25.9	32.6	34.0	36.6	35.5
Hispanic	27.6	27.9	27.9	28.9	35.8	37.6	38.1	38.0

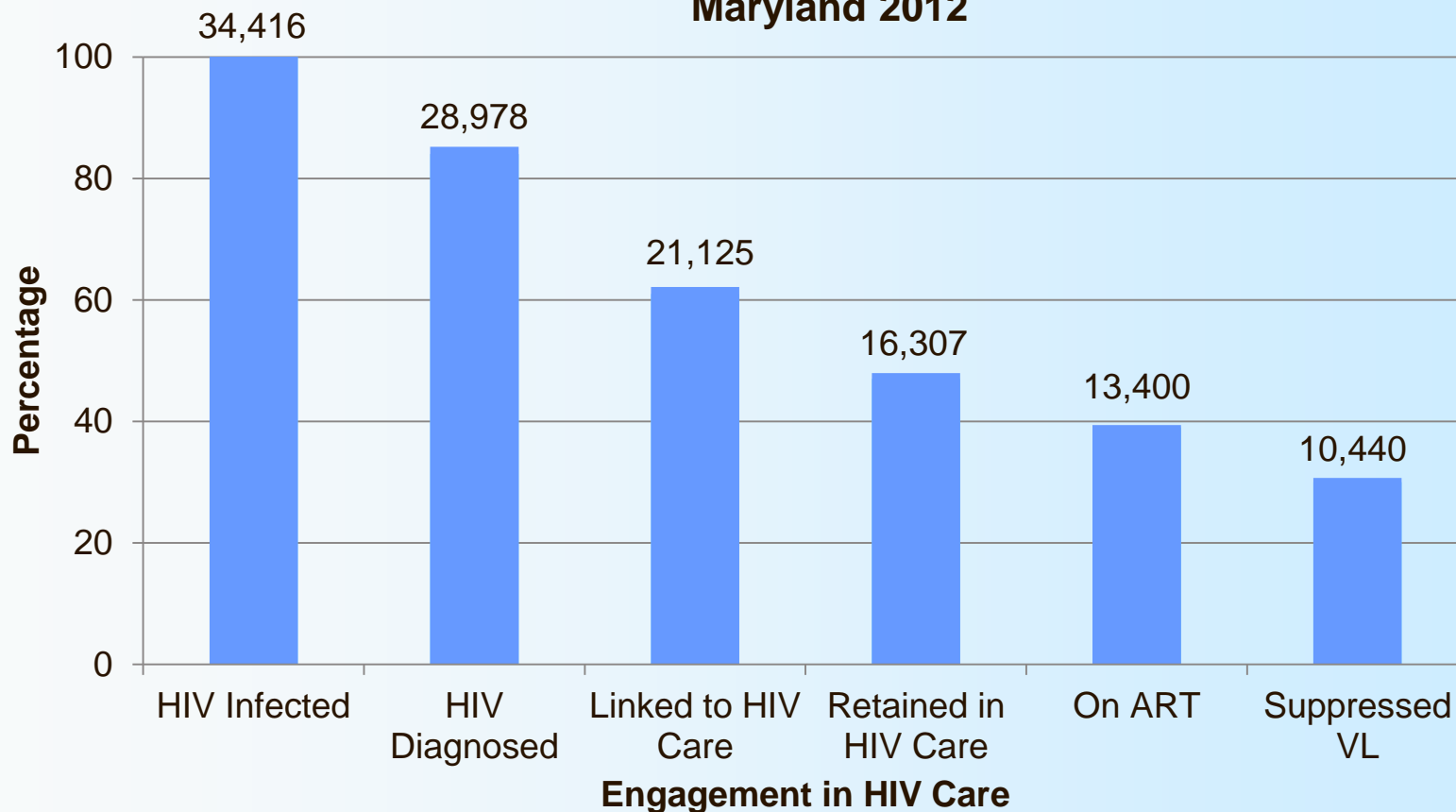
Year and Quarter

Using data as reported through 12/31/2013



Continuum of Care

**Estimated number and percentage of HIV infected adults/
adolescents engaged in selected stages of the continuum of care,
Maryland 2012**

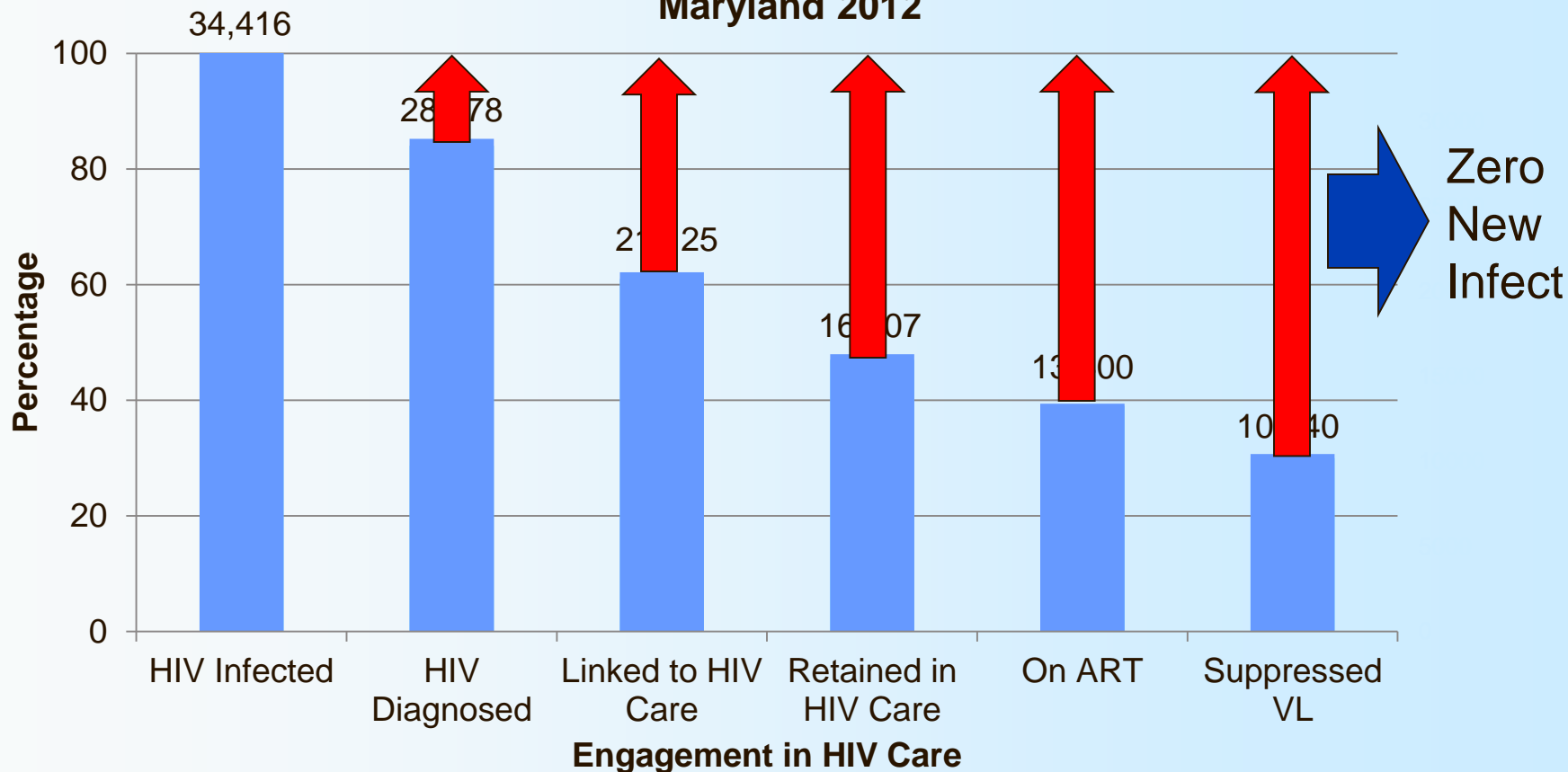


Using data as reported through 12/31/2013



Continuum of Care

**Estimated number and percentage of HIV infected adults/
adolescents engaged in selected stages of the continuum of care,
Maryland 2012**



Using data as reported through 12/31/2013



Prevention and Health Promotion Administration

<http://phpa.dhmfh.maryland.gov/oideor/chse>